



A white that is white and remains white



Undoubtedly large wall and ceiling areas in your plan

Undoubtedly large wall and ceiling areas in your plant or factory are painted WHITE. Are you using interior white that must be repainted every year or Britenol?

Each Spring and Fall literally hundreds of new customers sell themselves on Britenol, through the trial method of painting one floor or section of your plant with this well known interior white.

And, trial users one season become regular customers the next. Send today for the new Britenol folder. Read it — this will take only five minutes. Then send us a trial order.

This may mean a lot to you!



GOHEEN CORPORATION

OF NEW JERSEY

Main Office and Plant New Newark, N. J. 331

New York City Office 331 Madison Ave.

Paint Engineers Since 1888



TEXTILE MACHINE WORKS, READING, PA

McClintic-Marshall Company

Manufacturers and Erectors of

STEEL BRIDGES, BUILDINGS AND OTHER STEEL STRUCTURES

GENERAL OFFICES

OLIVER BUILDING, PITTSBURGH, PA.

BRANCH OFFICES:

NEW YORK PHILADELPHIA CHICAGO

BALTIMORE

CLEVELAND

ST. LOUIS

BOSTON **BUFFALO** CINCINNATI DETROIT

SAN FRANCISCO LOS ANGELES

CHARLOTTE

WORKS:

PITTSBURGH **POTTSTOWN**

CHICAGO BUFFALO

LOS ANGELES SAN FRANCISCO

C. D. MARSHALL, '88, President

H. H. McCLINTIC, '88, Vice President

R. W. KNIGHT, '94 G. R. ENSCOE, '96 C. M. DENISE, '98 T. L. CANNON, '03 E. F. GOHL, '07 F. U. KENNEDY, '07 R. MACMINN. '07

L A. WALKER, '08 G. A. CAFFALL, '10 LESLIE ALLEN, '16 W. A. CANNON, '16 J. N. MARSHALL, '20 J. H. WAGNER, '20 G. L. GAISER, '22 J. F. MOYER, '23

I. F. KURTZ, '23 W. R. DRAKE, '24 A. S. HALTEMAN, '26 W. R. STEVENS, '26 R. R. WEAVER, '26 V. I. VARGA, '27 C. F. CLASS, '28

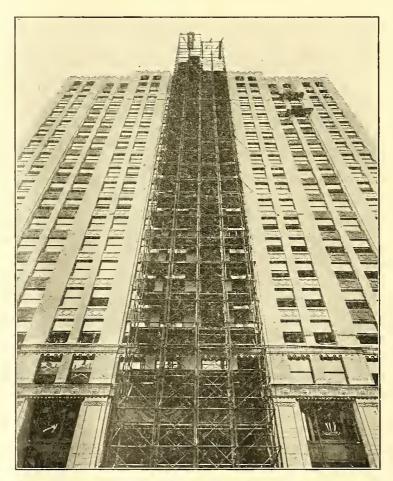
Dravo Equipment Company

PITTSBURGH

NATIONAL DISTRIBUTORS

----- FOR -----

AMERICAN TUBULAR TOWERS



The above view shows a 292'6" four compartment tower used on the Jackson-Franklin Building, Chicago, by McLennan Construction Company, Contractors, and illustrates strikingly the flexibility of this equipment.

These towers are available in heights from 39' up.

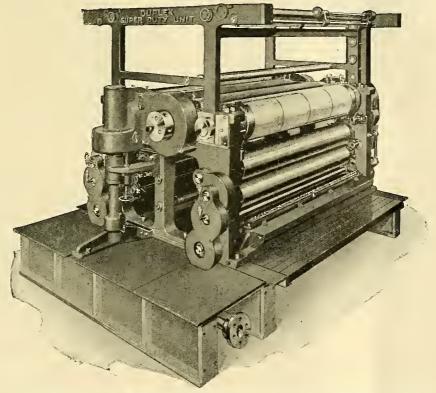
DISTRIBUTORS IN PRINCIPAL CITIES

MAIN OFFICE - 300 PENN AVENUE, PITTSBURGH, PENNA.

Catalogue on request.

THE DUPLEX SUPER DUTY INTERCHANGEABLE UNIT

SETS A NEW STANDARD IN PRESSROOM EQUIPMENT



THE DUPLEX SUPER DUTY INTERCHANGEABLE (PRINTING) UNIT

SAFE—EASY TO OPERATE—ACCESSIBLE—SIMPLE IN DESIGN—OVERSIZE PARTS—SUPERIOR MATERIALS—ACCURACY OF MACHINE WORK—NO LIGHT STREAKS IN PRINTING.

A New Standard of Excellence in Metropolitan Press Requirements

Che Duplex Printing Press Company

Times Bldg. New York BATTLE CREEK, MICHIGAN

Marcus M. Farley, '06 Vice-President, Secretary



add your Fuel Bill to your other expenses of the Fall and Winter

September School-Opening Expenses October and November
Fall and Winter Wardrobes
Conditioning the Home for Winter

December
Christmas and the
Holiday Season

GRANTING at the outset that the coal producer and the coal dealer have selfish reasons for urging you to buy your coal early, that consideration does not in any way alter the fact that it is also to the advantage of the coal consumer to do so.

When your coal is bought in the early Summer, the outlay comes at a time when other fixed expenses of a household are light.

Then, the dealer in Old Company's Lehigh Anthracite will allow you a seasonal price-reduction on all coal purchased now.

Old Company's Lehigh Anthracite is, of itself, a sterling investment. It has been America's standard home-heating fuel for over a century, proved by a century's use under all conditions, and famous for its purity, uniformity and dependability. To have one's bins filled with it, is to have the best-known protection against the Winter's cold.

OLD COMPANY'S LEHIGH ANTHRACITE

"Going to Bethlehem"

PROFESSOR CHARLES G. OSGOOD, of Princeton, delivered a very delightful address in Bethlehem this spring at the thirtieth anniversary celebration of the Bach Choir. We should like to reproduce the entire speech, but lacking space for that, give you below an excerpt, which seems most appropriate at this time, when many thoughts turn toward "Going to Bethlehem."

There are a certain few rare cities in the world of which I am glad not to be a citizen-and for no disparaging reason. If you will let me say so, Bethlehem is one. If I lived here, I could not have the privilege of coming hither from time to time to escape from the every-day world. Coming to Bethlehem is a little like what some good religious people call a retreat, somewhat livelier and more genial, I admit. To come from the world outside, to leave behind the commonplaces of life, to feel surrounded here, and possessed for a season by the mysterious spell of this new-old city-I know better than any one of you canand I speak for thousands of visitors like myself-that this is a regenerating experience not to be found elsewhere, so far as I know, in all the world. If we were citizens of Bethlehem, whatever our benefits, we should have to sacrifice this precious experience.

For some time I have tried to understand and define to myself what it means -this "going to Bethlehem." "Are you going to Bethlehem?" we ask one another in the Spring. "Yes, we are going to Bethlehem." Of one thing I am sure. It means more than a pleasant trip through beautiful landscape in the beautiful time of year. It means more than comfortable entertainment, and that is saying much as these things go in Bethlehem. "We are going to Bethlehem." We shall again see that gleaming Indian river winding down out of the Pennsylvania mountains. We shall again see those guardian hills to the south, and those broad swelling farm lands billowing off to the Blue Ridge and the north. We shall again feel the pulse of those steel arteries of commerce that follow the valleys out into all the land, east, west, and south; and the throb of that flaming heart of a giant industrial body, the steel mills down below, grim, massive, dominant. "We are going to Bethlehem." We shall see again the picturesque, warm-colored homes clustered and clinging to the slopes in a warm spring sun. We shall traverse again those marvellous bridges, looking abroad over the town as visitors of old viewed an ancient city from its gray wall. We shall wander again in by-ways past old door-yards, and catch far glimpses back into well-kept gardens.

Let people judge by what standards they will; but to us whose eyes and feet and hearts turn annually towards old Bethlehem, to find here the high moment of the whole year, this city wears a special and enduring distinction.

LEHIGH ALUMNI BULLETIN

Published monthly, October to July inclusive, by the Alumni Association of Lehigh University, Inc., Bethlehem, Pa.

Printed by Times Publishing Co., Bethlehem, Pa. Subscription Price, \$2.00 a Year

Member of Intercollegiate Alumni Extension Service

Entered as second-class matter at Bethlehem, Penna., Post-office

A. E. Buchanan, Jr., '18, Editor

J. W. MAXWELL, '26, Asst. Editor

VOLUME 16

JUNE, 1929

NUMBER 9

ALUMNI ASSOCIATION OF LEHIGH UNIVERSITY, INC. Alumni Memorial Building, Bethlehem, Pa.

T. M. GIRDLER, '01, President

L. S. HORNER, '98, Vice-President

N. E. FUNK, '05, Vice-President

R. S. TAYLOR, '95, Treasurer

A. E. BUCHANAN, JR., '18, Secretary

J. L. BEAVER, '04, Archivist

Honorary Alumni Trustees

A. C. Dodson, '00 H. D. Wilson, '01 AUBREY WEYMOUTH, '94 C. W. HUDSON, '89 CADWALLADER EVANS, '01 F. R. DRAVO, '87

ALUMNI MEMBERS, BOARD OF CONTROL OF ATHLETICS

M. L. Jacobs, '10

China

Pittsburgh

D. M. Petty, '09

J. A. Frick, '03 W. R. Okeson, '95

JOINT ENDOWMENT COMMITTEE W. C. Dickerman, '96, Executive Chairman

E. G. Grace, '99, Honorary Chairman

A. Weymouth, '94 H. S. Drinker, '71 C. W. Hudson, '89 F. Baker, Jr., '95

C. D. Marshall, '88 F. R. Drave, '87 H. D. Wilson, '01

W. R. Okeson, '95

LEHIGH ALUMNI CLUBS

President Secretary District Bethlehem (Home Club) J. C. Ganey, '20

Taylor Aliderdice, '83

T. N. Gill, '07

J. Mason Read. '23

Chicago Central Penna.

Cincinnati Detroit A. C. Hutchinson, '02

Maryland J. S. Rowan, '10 L. A. Olney, '96 New Engiand

Wm. Wirt Mills, '87 30 Church St. New York

Northeast Penna. B. E. Schaeffer, '22 Northern California R. H. Tucker, '79

Northern N. J. David Green, '22 L. H. Van Billiard, '23 Northern N. Y.

Northern Ohio M. Schmid, '07 Philadelphia C. F. Lincoln, '11

C. H. Veeder, '86 Southern N. E. Southeast Penna. E. A. Quier. '91

Southern Anthracite J. H. Pierce, '10

Southern California S. E. Lambert, '89 Trenton, N. J. J. H. Pennington, '97

Washington, D. C. Western New York

York, Penna. J. L. Rosenmiller, '19 A. C. Dubois, '25, First National Bank Bidg.

Bidg.
J. T. Aubrey, '09. 410 N. Michigan Ave.
Milton Roth, '24
L. C. Wurster, '25, Franklin St., Pennbrook, Pa.
Yen Te Ching, '01. 16 Fang Chin Hsiang, Peking, China.
L. T. Rainey, '99
L. A. Baumann. '19. French Proce

ng Chia Hsiang, Peking, China.

L. A. Baumann, '19. French Bros.Bauer Co., Cincinnati, Obio.

H. E. Johnson, '13. 14414 Dexter Blvd.

J. F. Leib, '25. 308 E. 22nd St., Baltimore, Md.

A. D. Bacb, '17. 39 Bemis St., Newtonville, Mass.

Edward M. Giles, '26.

G. H. Bingham, '10, Duomore, Pa. R. C. Moore, 1800 Arch St., Berkeley, Calif.

F. H. Samuels, '25. 786 Broad St., Newark, N. J.

Kenneth Houseman, '27, Schenectady,
N. Y.

Kempsmith, '11. 2008 Union Trust Bldg.

Moriz Bernstein, '96, 2130 Estaugh St.

Edward Stotz, Jr., '20. 801 Bessemer

Edward Stote, 196, 168 N. Quaker Bldg.
J. W. Thurston, '96, 168 N. Quaker Lane, Hartford, Conn.

R. W. Kinsey, '07. 723 N. 5th St., Reading, Pa.

R. B. Serfass, '09. 308 Schuylkill Trust Bldg., Pottsville, Pa.

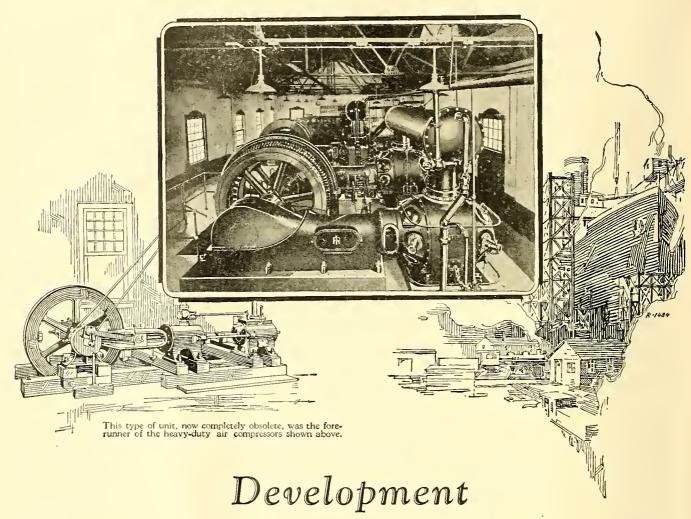
R. M. Eckert, '08, 5642 Carlton Way, Hollywood, Calif.

E. L. Robinson, '24. 2 S. Clinton Ave.

C. B. Griffith, '28. 4200 Harrison St., N.W.

J. F. Rogers, '24. 16 Clarendon Place, Buffalo, N. Y. S. H. Shipley, '22. 639 Linden Ave.

ADDINI FUND CHASS ACTIVITS							
1873	W. M. Scudder	1892	H. H. Davis	1911	A. P. Spooner		
1874	C. W. Haines	1893	J. Taylor	1912	Morton Sultzer		
1875	J. H. Evans	1894	A. Weymonth	1913	R. T. Dynan		
1876	W. L. Raeder	1895	R. S. Taylor	1914	W. A. Schrempel		
1877	H. S. Jacoby	1896	J. deB. Amador	1915	C. E. Siebecker		
1878	H. F. J. Porter	1897	J. H. Pennington	1916	E. J. Clement		
1879	F. W. Sargent	1898	L. S. Horner	1917	A. Bach		
1880	J. T. Reese	1899	A. W. Klein	1918	A. E. Buchanan,	Jr.	
1881	T. M. Eynon	1900	E. A. Yellis	1919	H. D. Ginder		
1882	E. H. Lawall	1901	E. T. Murphy	1920	Mercer Tate, Jr.		
1883	A. E. Forstall	1902	A. A. Diefenderfer	1921	L. Bevan		
1884	A. Parker-Smith	1903	S. P. Felix	1922	S. Cottrell		
1885	H. O. Jones	1904	F. P. Sinn	1923	A. W. Hicks, Jr.		
1886	C. H. Veeder	1905	W. H. Lesser	1924	J. F. Rogers		
1887	C. A. Buck	1906	S. J. Cort	1925	A. L. Bayles		
1888	H. H. McCliatic	1907	Raymond Walters	1926	Davitt S. Bell		
1889	C. W. Hudson	1908	J. M. Fair	1927	John B. Hayes		
	H. A. Foering	1909	S. R. Schealer	1928	W. B. Billmeyer		
1891	W. Forstall	1910	M. L. Jacobs				



Compressed air is now one of the three great power-transmitting media. Because of this, the present-day compressor is necessarily a model of smoothness and efficiency.

The big compressors shown above contrast sharply with their predecessors of thirty years ago. The earlier machines were cumbersome, unwieldy units of low capacity and even lower efficiency. But the modern types, developed with all the care of skillful engineers, are made for every industry and every type of work; they are, in fact, no less

essential than the numerous mechanical devices now powered by electricity and steam. Many I-R Compressors are equipped with the patented five-step Clearance Control, by means of which regulation is obtained in five successive stages. This method of regulation (viz., full, 34, 1/2, 1/4, and no load) means that the power reduction is practically in direct proportion to the reduction in load.

Ingersoll-Rand Compressors are built in more than 1,000 sizes and types, their capacities ranging from 7 to over 10,000 cu. ft. per minute. Like the other I-R products, they are universally

known, and today you will find them in every country of the civilized world.

INGERSOLL-RAND COMPANY
11 Broadway

New York City

Offices in principal cities the world over

Ingersoll-Rand

LEHIGH ALUMNI BULLETIN

JUNE, 1929

Back to Bethlehem
—And How!

As surely as the subtle magic of Spring calls forth the foliage and the blooms, so does

an equally potent and mysterious power possess the souls of Lehigh men in June. In the office, the mill, the factory, the mine, in every odd corner of the world's great workshops, men pause, surprised to find suddenly that the absorbing routine of normal activity has become drab and oppressive. Their usual quick perception of the task at hand is fogged by the recurring vision of a wooded mountain side dotted with familiar halls entwined with cherished memories and animated by glad, irrepressible youth. At such a time, in June, the wise man heeds the murmur of his subconsciousness, follows his heart back to Old South Mountain and permits his soul to expand in the warm atmosphere of young inspiration, fond recollection and unalloyed friendship.

For the call of the campus in June is the lure of the days when hopes were high, when confidence was supreme, when ideals were loftiest, when friendships were richest and disillusionment unknown. We are drawn back to that same environment, knowing that it exists there unchanged for us and eager to refresh ourselves at the same spring. For one day the old world must wag along without us for we're turning back the clock of years and we're going back where Lehigh waits to welcome us, to give us fresh inspiration and where old friends will greet us with the same old warmth. For one day we'll be boys again.

An Impetus to Engineering Research IN addition to his donation of the Electrical and Mechanical Engineering Lab-

oratory and his munificent bequests to Lehigh's endowment fund, James Ward Packard provided in his will for a fund of \$20,000 for Lehigh, to be used in any manner that the Board of Trustees might designate. In order to perpetuate Packard's name through this bequest and to devote it to a purpose in keeping with his interests, the Board has decided to reserve the fund as a special endowment, the income of which will be used for the maintenance of a research fellow in either electrical or mechanical engineering, to be known as the James Ward Packard Research Fellow. The re-

cipient of this fellowship will be enabled to spend two years at Lehigh, conducting research work in one of these fields and at the same time, studying for his master's degree.

It is most appropriate that this impetus to the spirit of research in electrical and mechanical engineering should come coincidentally with the completion of the new laboratory. May we not reasonably hope that the opportunity thus provided for young engineers to specialize in their chosen field will some day result in contributions to society and to industry comparable with those of our late fellow alumnus, Packard, '84?

Program for Alumni Day A COMPLETE program of Alumni Day and Commencement events is given on the next page. It will be

observed that the general schedule of events follows the usual plan, which seems to fit the wishes of the majority and to conform to deep-rooted custom. The details of the program, however, have been the subject of much thought and every effort has been made to provide for the comfort and pleasure of the record-breaking crowd of alumni which is expected on the campus June 8.

New arrangements for the mammoth Alumni Dinner on Friday night should alleviate the congestion which has become more noticeable each year. A great deal of effort has been expended on the entertainment program in the hope of providing an evening that will be equally enjoyable to those who prefer dignity and formality and those who want to kick up their heels in the most undignified and informal way. It is a difficult compromise to make, but if it can be done at all, this year's program will do it.

The Alumni Luncheon, on Saturday, will be served in the old Commons as usual, but this year Drown Hall will also be pressed into service as a cafeteria. Luncheon will be served continuously from 12 until 1:30, so that there need be no mass attack on the Commons at any one moment. With two food dispensaries instead of one and with every effort made to expedite the service, Mr. and Mrs. Lehigh should find luncheon under the trees a thoroughly delightful event.

Many alumni have inquired if the James Ward Packard Laboratory is to be dedicated as part of the Alumni Day exercises. The answer is, no, the new building will not be dedicated until the fall of 1930 at least, although it will be occupied this September. It will be some time, however, before all the new equipment is installed and operating. Then, we can invite the engineering world to dedicatory exercises with full confidence that all will agree that it is no mere boast to refer to Lehigh's newest laboratory as the finest of

its kind in the land. The dedication will probably be held in connection with a great conference of educators and industrial leaders which will be as significant to the nation as the formal opening of the building is to Lehigh.

Here, then, is the menu for the feast that Lehigh spreads for her boys this June. There is only one word to add, namely, come early and stay late.

Program of Alumni Day and Commencement

FRIDAY, JUNE 7

Daylight Saving Time

12:00 M. —Meeting of the Board of Directors of the Alumni Association, Bethlehem Club.

3:00 P. M.—Baseball, Muhlenberg.

7:00 P. M.—Alumni Dinner, Fiftieth Reunion of the Class of 1879, Ball Room, Hotel Bethlehem;

Dinner for the Wives of the Alumni and of the Faculty, Fountain Room, Hotel Bethlehem.

SATURDAY, JUNE 8

10:30 A.M.—Annual Meeting of the Alumni Association, Auditorium of the James Ward Packard Laboratory of Electrical and Mechanical Engineering.

1:00 P.M.—Alumni Luncheon, the Armory and Drown Hall.

3:00 P. M.—Parade of Reunion Classes.

3:30 P. M.—Baseball: Lehigh vs. Villanova.

7:00 P. M.—Reunion Banquets:

'84, Bethlehem Club

'89, Home of Archibald Johns-

'94, Bethlehem Club

'96, '96 Alcove, Hotel Bethlehem

'99, Home of E. G. Grace

'04, University Room, Hotel Bethlehem

'09, Fountain Room, Hotel Bethlehem

'14, Spring Valley Inn

'19, Saucon Valley Country Club

'24, ——

'28, Brighton Restaurant

SUNDAY, JUNE 9

10:45 A.M.—Academic Procession from the Alumni Memorial Building.

11:00 A.M.—Baccalaureate Sermon by the Rt. Rev. Charles Fiske, A.B., D.D., S.T.D., L.H.D., L.L.D., Bishop of Central New York, Packer Memorial Church.

MONDAY, JUNE 10

10:00 A.M.—Meeting of the Board of Trustees, Alumni Memorial Building.

2:00 P. M.—Class Day Exercises, University Campus.

4:00 P. M.—President's Reception to the Members of the Graduating Class and their Families, the Trustees, Alumni, Faculty and Friends of the University, Drown Memorial Hall.

TUESDAY, JUNE 11

10:45 A.M.—Academic Procession from the Alumni Memorial Building.

11:00 A.M.—Sixty-first Commencement Exercises in the Packer Memorial Church. Address by the Rev. Harry Emerson Fosdick, A.B., A.M., D.D., S.T.D., LL.D., Professor of Practical Theology, Union Theological Seminary, and Pastor of the Park Avenue Baptist Church, New York City.

Alumni Fund Payments from June 27, 1928, to May 10, 1929

	sc	CALE	.0	Number of Members	Alumni Fund		Amount Paid
Class	• ÷ 53	-50%	÷75% ÷100%	With Addresses	Contributors Since June 27, 1928	Percentage	To Date
1029	7				86	33%	\$ (738.00)
1928				220	84	37%	(641.50
1926		1	1	221	68	31%	(778.00
1925				249	60	24%	(571.00)
1924				269	78	29%	(565.00
1923				260	79	30%	(685.00)
1922				226	75	33%	(636.50
1921			.	182	68	37%	(631.00
1920				189	64	34%	(653.00
1919	w			148	50	34%	(423.50
1918	4			142	57	40%	(589.00
1917				169	60	35%	(700.00
1916	the second second		.]	146	52	36%	(541.92)
1915				126	48	38%	(448.00)
1914				130	51	39%	(5,490.00)
1913				157	43	27%	(526.00)
1912				137	41	30%	(713.00
1911				128	36	28%	(546.50)
1910		Į.	1	165	56	34%	(924.00)
1909				143	60	42%	(905.00)
1908		1		153	54	35%	(824.00)
1907			1	129	64	50%	(6,948.00)
1906				114	53	46%	(1,130.00)
1905				112 94	48 49	43%	(694.00)
1904	The state of the s			88	46	52%	(1,093.00)
1903	1.9			54	26	52%	(6,370.00)
1902				62	33	48%	(435.00)
1901 1900	The state of the s			64	18	53%	(1,729.00)
1899				41	31	28% 76%	(2,326.00) (6,871.50)
1898	A A A A A A A A A A A A A A A A A A A	The state of the second of		62	31	50%	(861.00)
1897	A S S S S S S S S S S S S S S S S S S S			74	41	55%	(977.00)
1896	4743072			95	47	50%	(5,920.00)
1895	5			99	70	70%	(3,243.00)
1894		20 State - State - 12		62	43	69%	(1,667.00)
1893	7.8	• • • • • • • • • • • • • • • • • • • •		77	39	50%	(439.00)
1892	22 3 CONTRACTOR STATE STATE			42	24	57%	(676.00)
1891	Litera			37	31	84%	(606.00)
1890	1. 14 25 10 10 10 10	M5NU2		56	31	54%	(646.00)
1889				52	33	63%	(4,415.00)
1888				55	29	52%	(13,332.00)
1887				42	25	60%	(3,267.00)
1886				32	15	47%	(342.28)
1885	To the second se			21	13	62%	(172.00)
1884	The second second	The Marie States	25 - 25 - 25	12	11	92%	(130.00)
1883		1		21	17	80%	(936.00)
1882		.	••••••	7 1	2	29%	(118.00)
1881 - 1880 -	X- 46 G			4	2	50%	(12.00)
1879				4 6	2	25%	(20.00)
1878				8	2	33% 56%	(124.00)
1877		1		9	4	44%	(1,088.00) (127.00)
1876		Comments		7	4	57%	(29.00)
1875				5	3	60%	(44.00)
1874				3,	2	67%	(109.00)
873	Maria de la companya della companya della companya della companya de la companya della companya	-7.		3	2	67%	(16.00)
872				4			(10.00)
				$\dot{2}$	1	50%	(55.00)
				4		30%	(3).001
871		• • • • • • • • • • • • • • • • • • • •	Total	5486	2166 .	39%	(*\$93,694.88)

The total listed above will be distributed as follows: Alumni Dues, \$7,949.00; Bulletin, \$4,099.00; Class Dues, \$3,913.50; Income Account, \$77.733.38. *Includes \$482.64 Interest, \$5,650.00 from Outside Donors and \$2,052.54 Special Contributions.

How Lehigh Teaches Industrial Safety*

By F. V. LARKIN

Director, Industrial and Mechanical Engineering, Lehigh University



OW do engineering colleges look upon safety? How do they approach the subject and how do they incorporate it in the training of men for industry? This article discusses these questions from the educational point of view and describes the methods we use at Lehigh. Our formal academic instruction in safety is given in the course in industrial management which it is my privilege to handle.

We start with the premise that men will find their happiness in the work that brings them achievement, the work that brings, in addition to bread and butter, the satisfaction necessary to warrant their continuance in it. We study the text and do much outside reading where we come in contact with the results of accident prevention work in the form of statistics, tables and charts. Occasionally we call in a lecturer from one of the industrial plants in the vicinity.

Suppose now we ask what are fair terms under which the average workman may be expected to work steadily and happily, the terms under which he has a fair chance of attaining that achievement without which he is ineffective, both from his own point of view and that of the company.

- J. M. Larkin suggests that such terms may be embodied in the following:
 - 1. A steady job.
 - 2. Adequate real wages.
 - 3. A good supervisor.
 - An individual and collective voice in all his conditions.
 - 5. A chance to rise on his merits.

Good! Practically all of these terms industry accords men today. Yet as they progress under these terms they, as all of us, are beset with certain misfortunes and disasters. These are:

- 1. Lack of training—unfortunate.
- 2. Unemployment—deplorable.
- 3. Accidents—inexcusable.
- 4. Sickness
- 5. Old age \ —inevitable.
- 6. Death

For the present we are concerned with safety, the prevention of accidents—those inexcusable occurrences which no one plans and which all deplore. Down at the University, in the safety and security of our happy young life it would seem that things so little desired and so totally devoid of sponsorship could not transpire to any great extent. Then we read a bit, and here is what we find annually:

- 40,000,000 industrial workers.
- 750,000 of the above sustain disability of more than
- four weeks. 22,500 killed.
- 18,000 suffer permanent disability.

This means 18,000,000 man-days per year, or the working time of more than 60,000 persons, the loss of \$100,000,000 in wages, and a cost of \$250,000,000 for workmen's compensation added to selling prices each year. We are amazed and stunned at these appalling totals. As we analyze the situation we reach these conclusions:

- 1. There must be causes for accidents.
- 2. There must be responsibility for accidents.
- 3. There must be some means of preventing accidents.

And we busy ourselves with finding out. Our text-book, "Personal Administration," (Tead and Metcalf) says there are three prime causes of accidents:

- 1. Mechanical causes.
- 2. Physiological causes.
- 3. Psychological causes.

By mechanical causes we mean unguarded machinery, dangerous elevators, slippery floors, obstructed passageways, narrow clearances, unkempt areas, and the like.

By physiological causes we mean unhealthy working conditions, poor lighting, inefficient ventilation, and long hours of work at arduous or monotonous tasks producing overstrain, sickness, worry or undue fatigue.

By psychological causes we mean ignorance, inexperionee, carelessness, recklessness, lack of plant discipline or supervision.

HAVING isolated the causes we next seek to place the blame. Mechanical causes, we say, shall be blamed on management first and men second. Physiological causes shall be blamed on management alone. Psychological causes shall be blamed on men first and management second. Summing up, we find management charged on four out of six counts with the responsibility for industrial aecidents.

WHAT CAN WE DO?

Having established the causes and allotted the blame, what are we going to do about it? Again we read to find out what has been done, and here is what we find: Interest in industrial safety was born in the United States Steel Corporation in 1906. Two years later Judge Gary approved the appropriation of funds for earrying out proposed suggestions. In 1911 the corporation established its bureau of safety, sanitation and welfare. In the same year New York state put into effect the first workmen's compensation law. Since that time all but four states of the Union have enacted compensation measures and all progressive industrial plants have inaugurated more or less effective safety programs. Public schools and colleges give safety a place in their curricula, and eity, state and national

^{*}Abstract of an address before the Metrolopitan Chapter, ASSE-Engineering Section, National Safety Council.

organizations devote annually large sums of money for its research and propagation.

And we find further in our reading that the old fundamental type of organization has grown. In our teaching we used to divide it into three parts—finance, production and sales. Now we add a fourth factor—personnel. We believe that the personnel branch of an organization stands on a parity with the three older recognized subdivisions.

OUR text directs us to call for a personnel administrator of vigor and ability, and, in the typical organization, supply him with six departments, each headed by a competent chief, namely:

- 1. Employment.
- 2. Health and Safety.
- 3. Training.
- 5. Employees' Service.
- 6. Joint Control.

Then we study what to do with safety posters, safety committees, first-aid training and competitions, re-

search and educational work. And we endorse and praise the splendid accomplishments of safety engineers. Not only must we educate for safety, we must train for it. But where we spend a dollar for aiding the unfortunate victim of an accident, we must plan to spend a hundred dollars to prevent its occurrence.

Thus we find that it has taken about twenty-five years to evolve the safety program as it exists today. At this point the question arises in our minds, "In what form does the reward for this activity in safety manifest itself?" Mr. G. A. Orth of the American Car & Foundry Company says that one million dollars spent on safety in 14 years resulted in an estimated saving

of \$2,700,000 to his own company; that \$9,763,000 spent by the U. S. Steel Corporation in ten years saved an estimated sum of \$14,609,920. He lists the dividends paid by safety as follows:

- Increased production.
 Decreased overhead.
- 3. Decreased labor turnover.

4. Saving in money compensation.

Those of us who study this problem outside of the industrial arena, in the security and safety of university campuses, see results, less tangible, perhaps, but none the less significant and worth while. We know that scientific management was conceived and propagated by Taylor prior to the earliest manifestation of an interest in safety. We know that for many years the workers resisted vigorously the present widespread adoption of the principles of scientific management. We have seen the efficiency men disappear, and we have seen the very word "efficiency" fall into disuse, to be supplanted by less effective synonyms.

Welfare, the running mate of safety for so many years, has almost disappeared. It smacked of paternalism and men did not like it. But safety remains. There must be some reason for this. Here is what some of us think we see. Scientific management did not become effectively established until after the advent of safety. Here is our hypothesis:

A COMMON GROUND

Men dispose of their time in sleep, work and play. We shall omit sleep from the present discussion. Work is what men do for money. Play is what men do for fun without thought of money reward. Attach money to play and you get professionalism or gambling. So play, as we see it, is that realm in which men assemble to plan, to organize, to execute activities, the performance of which brings not money but fun, satisfaction or achievement.

Safety work was organized in the realm of play, for it brought together management and men on a common ground without the presence of money. And here, to my mind, in their fun, their achievement, safety men unconsciously blazed the way for that understanding between management and men which has removed the last barrier to the widespread adoption of scientific management, the principles of which form one of the vital foundation stones of our industrial civilization.

THE GREATEST REWARD

NDUSTRIAL SAFETY is rec-

ern engineering curriculum. Pro-

fessor Larkin outlines the nicely

balanced humanitarian and eco-

nomic considerations that shape

the viewpoint on this subject in

Lehigh's course in industrial man-

agement. Safety work, he says,

blazed the way to better under-

standing between men and man-

agement.

ognized as a part of the mod-

If this conclusion is correct, and I am confident that

it is, then this particular reward for safety effort is the greatest of them all. Ah, the pride of men in the records they estab-Achievement it is, and therefore happiness. Last summer I visited the coke plant of the Wisconsin Steel Company in Chicago. My college room mate is superintendent there. The outstanding feature of our trip and of our conversation was his pride in pointing to a sign on one of the buildings indicating a record of 300 consecutive no-accident days.

A few weeks ago I took my senior class in mechanical engineering to visit the plant of the Bethlehem Steel Company on one of our regular fortnightly trips. As we entered the plant,

we beheld a great broom mounted on one of the buildings where all might see it. Across the broom we read in large letters, "A clean sweep for the blast furnace, no accidents, record costs and production." And back of that advertisement of pride and achievement we saw the animating spirit of cooperation, good will, morale, team work and play—elements as necessary for distinctive performance at high-grade engineering or crack salesmanship.

NOW I am ready for my last question, "What are we going to do about it?" We are going to endorse safety work and urge all safety men to keep it going. We are going to suggest that you look over the statistics showing records of accidents in the various industrial arts and concentrate your efforts on some of the fields which have shown little progress in the past ten years.

We are going to urge you and your trade associations to keep and publish your records, however bad they may be. The contrast may be most effective. And as you go forward in these endeavors you should look ahead with the idea of sustaining, expanding and securing the industrial civilization which you have helped to create and which we all enjoy.

Baseball Team Loses Batting Eye and Ball Games

When a baseball team stops hitting, victories become mighty scarce and this is what has happened to the Lehigh nine in the last few games. Up until the Muhlenberg game on May 1, hits rattled off the Lehigh bludgeons in a regular staccato, but when the team ran up against Lafayette for the first of the three-game series, two solitary hits were all we could gather. Lafayette didn't do much better but they did score two rnns, just two more than Lehigh. The game was described as one of the best ever played between the two rivals, with the worst ending. The latter is particularly true from a Lehigh viewpoint. With two runs to the bad we had a man on second and third with one out and Morrison, their pitcher, in a rather shaky mood. Wint Miller, an outfielder who has been starring in recent games, caught one on the nose and it was labeled for one of those scorching hits past third base but Chimenti, Lafayette's future big-leaguer made a miraculous stop and caught McCarthy coming home for an easy ont. The latter had been told to hold his base unless it was a sure hit but this wallop had all the ear-marks of a two-bagger, so he instinctively started for home. Then, to make matters worse, O'Leary, who had advanced from second to third, was caught off the bag, ending the game then and there.

On the next Tuesday the team lost to Penn, as usual, by one run, making about the 'steenth time in the last few years that Penn has managed to win by a one-run margin. The team got its batting eye back against C. C. N. Y. on the following day but lost it again against Lafayette and Rutgers. Morrison again had Lehigh's number while Lafayette pounded Strauss for eight hits before he was relieved by Harry Hesse. The Brown and White batters did manage to get

Bosey Reiter, looking
fit as a fiddle again
after his recent illness,
congratulates Art Davidowitz, backfield star,
on being awarded the
Archibald Johnston, '89
cup for outstanding
football ability.



several passes to first base but double plays wreaked havoc with any rallies that might have been started.

Then along came Rutgers with a couple of star left handers who managed to leave the sacks pretty well occupied with Lehigh batters at the close of each inning, but that matters little in the final reckoning.

		Opp.	L.U
April	2	Villanova 8	10
April	3	Drexel 0	8
April	10	TempleRain	
April	13	Princeton 4	3
April	20	RutgersRain	
April	24	Haverford 0	7
April	27	Army (11 ins.) 5	6
May	1	Muhlenberg 6	8
May	4	Lafayette 2	0
May	7	Penn 5	4
May	8	C. C. N. Y 3	10
May	11	Lafayette 7	2
May	15	Rutgers 4	2
May	18	LafayetteAway	
June	7	MuhlenbergHome	,
June	8	VillanovaHome	



College Meeting at the Flag Pole-Sword and Crescent Tap Day

Seligson Continues Undefeated As Tennis Team Breaks Even

The tennis team is sailing along at a fifty-fifty clip so far this season with three matches remaining on the schednle. Julius Seligson, Lehigh's U.S. Intercollegiate tennis champion, has still to meet his Waterloo in collegiate circles although he has had stiffer competition this year than last season. It seems that several of the outstanding young tennis players in the East have become sophomores this year and they are all primed to take Seligson's scalp but so far he has been able to keep his record spotless although more than one of these aspirants have extended him to three sets. Probably his toughest match of the year in dual competition was against Gregory Mangin of Georgetown, eleventh ranking player in the U.S. Since Mangin hails from northern Jersey he and Seligson have been keen rivals since they wore knee britches but Mangin went back to Washington without spoiling Seligson's record.

In the next match after the one with Penn, the team beat Swarthmore rather decisively with a 7 to 2 score. This victory helped to lessen the sting of the defeat which Penn administered because the Garnet had previously beaten the Red and Blue.

Rutgers proved easy but Columbia and Yale were too good for Lehigh, although we did win other matches in these meets in addition to Seligson's.

		Opp. L.U
April	17	Navy Rain
April	24	Lafayette 1 8
April	26	Wash. & Lee 1 6
April	27	U. of Penn 7 2
May	1	Princeton Rain
May	3	Swarthmore 2 7
May	4	Rutgers 2 7
May	7	Columbia 6 3
May	9	Georgetown 5 4
May	11	Yale 7 2
May	17	Dartmouth 5 4
May	20	Haverford Home
May	21	Lafayette Home



Bob Many, football, basketball and track star, winning the quarter mile in the Lafayette meet and his third "L" this year.

Field Events Are Track Team's Nemesis

The track team needs another man who can be counted on to win a second place in every meet, or else it needs a change in scenery. Swarthmore, Lafayette and Rutgers have all come to Bethlehem and have returned with the laurels but the sad part of the story is that Lafayette and Rutgers won with a margin of only five points each. This means that another second place for Lehigh would have reversed the situation in our favor. Maybe the team would have done better had they gone away from home for at least one of these meets but ordinarily a track team performs better at home than on rivals' tracks. Field events have been Lehigh's nemesis; in one meet it was the high and broad jump and in the other it was the weight events. The Brown and White runners have proved themselves superior to opposing runners but were unable to offset the weakness in the field events.

It's too bad the winners in track meets in this country aren't reckoned on the English and continental system where the team having the greatest number of first place winners carries the day. In the Lafayette meet, Brown and White athletes won eight first places and tied for the ninth, leaving the Maroon only five winners. But they were strong enough in second and third places to win the meet 651/3 to 602/3. Conditions were somewhat reversed in the Rutgers meet and the Scarlet won nine first places but Lehigh managed to gather almost enough points in seconds and thirds to bring us up even with the Raritanians, but the latter won with a third of a point more than Lafavette.

Bob Many, one of Lehigh's leading all-around athletes, has continued to break the tape in the quarter mile run as well as gather a few additional points in the half. Carl Lohmeyer, a sophomore, was responsible for fourteen points in the Rutgers meet with three seconds in the hurdles and furlong and a first place in the broad jump. Both of these boys have broken Lehigh records in their respective events. Many lowered Billmeyer's record in the quarter mile in the Penn Relays and Lohmeyer lowered "Joe" Carol's 220 hurdle mark in the Lafayette dual meet. Jack Levitz also broke the shot put record in the Rutgers meet although he only placed second.

The team's record to date:

			Opp.	L.U.
April	20	Haverford	78	48
April	24	Muhlenberg	34	92
April	26	Penn Relays	Secon	ıd
May	1	Swarthmore	74	52
May	4	Lafayette	65 1/3	60 3/3
May	11	Rutgers	65 %	60 1/3
May	18	Union	Away	r

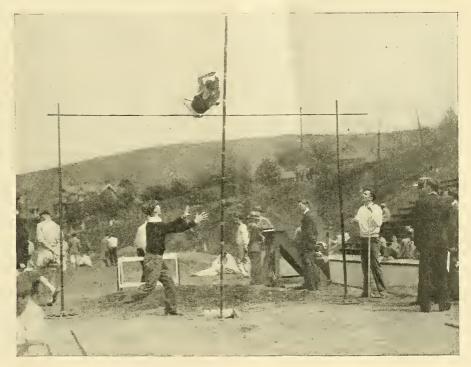
Lacrosse Team Revives Winning Ways Against Swarthmore

After three ragged exhibitions of lacrosse against Princeton, Rutgers and Stevens, the Lehigh twelve staged a brilliant come-back last Saturday against Swarthmore, downing the Garnet by a 4 to 3 score. The other three games mentioned were all lost by close scores and not because the opposing teams were particularly good but because our team was below form on all three occasions. It was at the start of the second half of the game at Swarthmore that the team suddenly found itself or became inspired. Anyhow they scored three goals in eight minutes and then spent the remainder of the game preventing Swarthmore from tieing the score

In the games against the three Jersey teams, the Brown and White stickmen were able to hold the upper hand for most of the first half but for some unknown reason would suddenly go to pieces with the inevitable result.

The team's outstanding weakness seems to be in developing an effective offense when within striking distance of the goal. In the three of the games lost by close scores the team gained as many opportunities to score as the opponents but was unable to convert them into tallies. This was especially true in the Rutgers and Stevens games. The excellent work of Werft, a sophomore, at goal has been the outstanding feature of practically every game, particularly the defeats.

	~ FF.	
April 10	Lafayette 3	5
April 13	Navy 11	1.
April 20	Penn 3	4
April 24	Princeton 5	1
April 27	Rutgers 5	2
May 4	Stevens 3	1
May 11	Swarthmore 3	4
May 18	Montclair A. CHome	



Lehigh Chapter of Sigma Xi Inducts Alumni

A score of Lehigh alumni who have distinguished themselves in scientific circles journeyed to the campus on May 17 to attend the initiation and banquet of Sigma Xi, national honorary scientific fraternity, a chapter of which was installed at Lehigh last Spring. Sigma Xi is similar in nature to Tau Beta Pi and Phi Beta Kappa except that its membership is limited to those who have contributed original work to the advancement of scientific knowledge. Some 40 members of the Lehigh faculty are members of Sigma Xi, having been recognized for their achievements by chapters at other institutions. This group formed a nucleus which was instrumental in establishing a chapter at Lehigh.

Those who were formally inducted to membership in Sigma Xi at this first annual banquet were: William Bowie, '95, C. A. Bonine, '12, C. J. Brockman. '19, E. F. Burchard, '00, E. Claxton, '21, S. Cottrell, '22, E. Diebitsch, '89, F. R. Dravo, '87, H. S. Drinker, '71, P. Drinker, '17, C. Enzian, '01, W. L. Estes, Jr., '05, J. J. Frank, '94, A. E. Forstall, '83, N. H. Heck, '03, E. Higgins, '02, C. C. Jones, '87, W. S. Landis, '02, C. E. Lawall, Jr., '14,T. Merriman, '97, P. O. MacQueen, '07, H. S. Miner, '88, L. A. Olney, '96, H. H. Otto, '12, A. E. Phillips, '90, W. Z. Price, '10, H. G. Reist, '86, L. B. Ryon, Jr., '17, F. P. Sinn, '04, Morton Sultzer, '12, C. H. Veeder, '86, Aubrey Weymouth, '94, R. W. Wieseman, '16.

The initiation banquet was held at the Hotel Bethlehem on the evening of May 17. Speakers were President Emeritus Henry S. Drinker, President Charles Russ Richards and Commander Nicholas H. Heck, '03.

Dickerman, '96, Heads

American Locomotive Co.

At the meeting of the board of directors of the American Locomotive Co., held on April 18, William C. Dickerman, vice-president of the American Car and Foundry Co., and director in charge of operations of that company, was elected president and a director of the first named concern.

Dickerman is a director of various other companies, including the American-Canadian Properties Corp., the Carter Carburetor Corp., the Columbia Phonograph Co., the J. G. Brill Co., the Pacific Car and Foundry Co., the Shippers' Car Line Corp., and the United Gas Improvement Co. He is also a trustee of the North River Savings Bank.

Dickerman became vice-president of the American Car and Foundry Co. in 1905, just nine years after he was graduated from Lehigh. In 1919 he was made director in charge of operations, in which capacity he has served ever since.

He has always taken a keen interest in Lehigh and Lehigh affairs and has been an alumnus trustee of the University since 1924.



J. T. Bourke, '81, Honored

Governor Myers Y. Cooper of Ohio and other high officials of the State joined with newspaper men in Columbus, Ohio, on April 15 to bonor the "grand old man of Ohio journalism," John T. Bourke, '81. Bourke, veteran political writer for The Cleveland News, was guest of honor as the Ohio Legislative Correspondents' Association held its biennial dinner and gridiron at the Deshler-Wallick hotel. Active journalist for over 40 years-legislative correspondent for 23 years-president of the association since 1914 - president emeritus this last session-that was the career of the man to whom his colleagues paid tribute.

"I am happy to pay my meed of praise for the dean of Ohio's political writers, the dean of political writers of the United States," said Governor Cooper. "We all look upon John Bourke as an institution. I have learned to respect and to love him."

And when Bourke replied to the tribute bestowed upon him, he spoke not of himself, but of the history of the association and its influence for good in legislative and administrative affairs at the state house.

Northern New York Alumni Entertain Senior E.E.'s

When the class of thirty-six seniors in electrical engineering visited the General Electric works in Schenectady on May 10 while on an inspection tour, the Lehigh Club of Northern New York acted as their hosts at dinner and conducted them on a sightseeing tour of Schenectady and vicinity. In fact, if you ask a member of that class about the trip he immediately launches into a description of the dinner the alumni gave them at the Nine Mile Roadhouse on the Mohawk River. Without any doubt about it, the seniors, and Profs. Beaver and Hibshman, who were along, considered this the real feature of the

Joe Bent, '28, acted as chairman of the hospitality committee. Among the other alumni of that club who helped in enter-

taining the visitors were Lew Van Billiard, '23, C. P. Turner, '94, H. G. Reist, '86, E. L. Rich, '05, and Kenneth Houseman, '27.

Mustard and Cheese Club Entertains Phila. Alumni

The Lehigh Club of Philadelphia acted as host to a big, bold, Bad Man on the evening of May 2 in the ballroom of the Bellevue-Stratford. This Bad Man was accompanied by thirteen members of his "gang," all of whom formed the cast of the forty-fifth annual production of the Mustard and Cheese Club. This presentation marked the only out-oftown performance of the Club this year, two other performances having been staged on the campus. Although not quite as elahorate a production as some of the others staged in Philadelphia within recent years, the members of the club were unanimous in their commendation of the work of the players, especially that of Thomas M. Brennan, '29, president of the Mustard and Cheese Club who portrayed the principal role, that of the Bad Man.

The audience numbered some four hundred persons, composed largely of members of the club and their families and friends. However, there were also about a score of high and preparatory school seniors present as the guests of the Philadelphia alumni. These boys, who are students at several of the leading secondary schools in Philadelphia and vicinity, are all prospective Lehigh students and were given this means of seeing, first hand, a phase of Lehigh activity.

Not being content to confine all their efforts to the play, the Mustard and Cheese brought its orchestra along so after the play had ended happily for everyone, (except one man who was put out of his misery by the Bad Man) these musicians didn't lose much time in getting into action and providing the necessary rythym for a dance.

As is usually the case with functions of the Philadelphia Club, Bernie, '96, was very much in evidence before, during and after the affair. Bernie, together with John McKay, '17 and Walton Forstall, '91, the retiring president of the club, bore the brunt of the responsibility. They were assisted by a committee composed of Ted Estes, '20, Eddie Forstall, '20, Pop Shipherd, '21, Bob Heckert, '24, Joe McBride, '24, and Ollie Zurn, '26. Bernie had so many jobs to attend to during the evening that he enlisted the services of his son and the latter became the custodian of an important looking suitcase, the contents of which had a vital part to play in the events of the evening.

At one of the business meetings of the directors held a short time prior to the play and dance, new officers of the club were elected. C. F. Lincoln, '11, is the new president, N. E. Funk, '05, first vice-president, W. F. Carson, '08, second vice-president, R. L. Greer, '16, treasnrer, and Moriz Bernstein, '96, secre-

"Dear Dad"

Letters of a Lehigh Junior and His Lehigh Father



Monday.

Dear Dad:

You always tell me we don't know what work is and to wait until we get out of college and we'll find out how easy we had it. That may be true enough with some fellows, but ever since I got back from Easter, I sure have been hoppin'. It's just been one thing after another and here are finals only a week away and me up to my ears in work. Today we finished up drill for the year and I was selected as a second lieutenant for next year. I was a sergeant this year and our company got the cup for being the best one. Of course, the captain and the lieutenants got all the credit but the sergeants and corporals are the fellows who really do the work. Next year when I'm a lieutenant it'll give me some experience in ordering men around. This ought to help me when I get out.

Our track team is going up to Union this Saturday and I'm trying to convince Morris that he needs me. Gee, that's a real trip up there and if Petrikin wasn't so tight I'd be sure to go. I got Morris just about convinced, but even if he puts my name on the list, Jack is liable to cut it off. Weren't you in college with Jack? Maybe he'll recognize the name and let me go for old time's sake. The team goes up on the night boat and they have a great time. Union has Doc. Bruce, Lafayette's old coach, and he and Morris are what you might call friendly enemies.

I got the house running pretty smoothly now, so it wouldn't hurt if I was away for a day or so. Everybody's so busy now finishing up lab reports and outside reading and stuff like that, that they haven't time to tear around or cause trouble.

Maybe you won't recognize me when you see me, because I have a mustache well on the way. You see, we had the traditional moving up day here on Saturday, so now I'm a full-fledged senior and Humpy Campbell and I have a big bet on to see who can raise a mustache worthy of the name first. The fellow who loses has to read all the references in economics and make notes for the other fellow. The seniors in the house are to be the judges.

Unless I bust a couple of finals unexpectedly, I'll be a free lance this summer, so if you have a good job open at your plant, I'm available. It's part of our course to work in a plant or on roads or something that has something to do with engineering. Have you started that new wing on the machine shop yet? If that is going to be done this summer, how about me being an assistant superintendent of it? It would work in great with my college work and Fogg would think I was pretty good. Humpy and I are thinking of getting an old Ford and starting out for the Pacific coast after we have put in eight weeks of work. That's all we have to do for the report, and the trip would do us a lot of good. Of course if I can get a good job with your company, I'd be willing to stay all summer with a couple of weeks off just before college opens.

I was talking to Fred Trafford this afternoon. He wants me to be on the Union cabinet next year. I told him I'd have to think it over, because I'll have an awful lot to do, especially since I have a chance to be one of the sporting editors of the Brown and White. I take an exam on Thursday to see if I know enough to hold one of the jobs in the sport department. I don't like to disappoint Fred though, because we have been pretty good friends ever since I entered.

Since you didn't get here on Washington's Birthday, I don't need to ask you if you'll be on hand for Alumni Day this year. Last year you made me come home as soon as I was finished with my exams, but I have to stay around this year on account of being head of the house. Hope to see you soon. Love.

FRANK.

Dear Son:

Sure I have a job for you, but it won't be Assistant Superintendent of Construction on the new wing of the machine shop. It probably will be time-keeper, which will give you a chance to learn something of construction and at the same time not endanger the lives of my men by the roof of the new wing falling in on them about a month after you finish it. I'm strong for a college education, but it don't take the place of experience and the college man, just like any other chap, must start at the bottom.

As to the trip to the Coast in an old Ford—not a chance! Perhaps Professor Fogg only requires eight weeks of summer work, but me, I'm hard-boiled, and any student that starts a summer job around our plant works all summer. I'm going to give you a chance to find out whether or not I'm right when I tell you that you have a soft snap at college. This new shop is a rush job, with lots of overtime and only one timekeeper. This summer is where you show me whether you can concentrate on one thing instead of trying to run a threering circus with athletics in the middle ring, publications and dramatics in one of the end rings, fraternity and social doings in the third ring and scholarship on the high trapeze, in constant danger of falling off and breaking its neck.

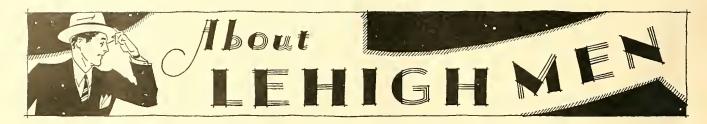
What kind of work are you "up to your ears in"? Your first paragraph indicates you are sweating blood and burning midnight oil with finals only a week away. The next paragraph indicates you are spending most of your time and energy in trying to get an unearned joy ride over the week-end. As a track athlete you are a frost and I am glad that Petrikin has enough sense to flag you. Personally, I don't believe Morris Kanaly is so foolish as to consider you a runner. He may be a little deaf but his eyesight is good. You stick to your knitting for the rest of this term and take your recreation in training your budding mustache.

Don't worry about entertaining me on Alumni Day. You stay right at home and watch the fraternity silver so none of these alumni swipe it. On second thought, I believe I'll bring your mother along and you can show her the campus. That way I'll get credit for taking her back for Alumni Day and at the same time won't have my style cramped by being obliged to look after her. I've read her that sentence and she remarked with a very expressive sniff, "When I go back with you to Lehigh, the best I ever expect is to capture you in time to catch the train home." That gives me an idea. You can come home with your mother and it won't make any difference if I miss the train.

Here's the check you forgot to ask for.

Lovingly,

DAD.



OBITUARIES

E. E. Bush, 289

Dr. Elmer Ellsworth Bush, a physician in Danielsville, Pa., died on March 24. No details of his death were received.

H. M. Menner, '00

Henry Maxwell Menner, a chemist with the Lackawanna Railroad Company, died on April 20 in the Moses Taylor Hospital, Scranton, following an illness of three weeks, in his fiftieth year.

Menner had lived in Scranton for the past nineteen years, having been with the International Textbook Company before going with the railroad. He is survived by his widow, one daughter and his mother.

A. J. Hoff, '07

August John Hoff, manager of the municipal department of the Equitable Trust Company, of New York City, died on May 1 at his home in Essex Fells, N. J. He had been with the Guaranty Trust Company, of New York. He was active in Masonic orders in New York and Newark. Hoff is survived by his widow and three children.

R. H. Gifford, '14

Stricken suddenly with a complete nervous and physical breakdown, Richard Haight Gifford, a Lieutenant Commander, Corps of Civil Engineers, U. S. Navy, died May 10 in St. Elizabeth's Hospital, Anacosta. D. C. He had been in the Bureaus of Yards and Docks and Aeronautics in the Navy Department. While in the Navy he spent some time in Alaska with the naval coal commission. Funeral services were held May 14 at Fort Myer, Va., and were attended by a number of Lehigh men. Gifford was buried with military honors in Arlington National Cemetery. He was a member of the Sigma Nu Fraternity.

M. H. Merwin, 14

Word has been received that Miles H. Merwin died the latter part of March. Details have not been obtained. He had been with the Jones and Laughlin Steel Corporation up until a few months before he died. He was a member of the Sigma Phi Fraternity.

MARRIAGES

Class of 1917

Franklin N. Becker to Jeanne Marie Antoinette, daughter of Madame and Monsieur Emile Boudet, on January 30, in Paris, France.

Class of 1920

Lawrence H. Harwi to Helen Cecile, daughter of Mr. and Mrs. John E. Peterson, of Hollis, Long Island, on April 12.

Class of 1923

Theodore O. Wohlsen to Anne Eliza-

beth Heller, at Lancaster Pa., on April 11, 1928.

William Albert Carlisle to Miss Josephine Lorenzo, of Punxsutawney, Pa., on May 8. Mr. and Mrs. Carlisle are enjoying a three-weeks' honeymoon in Cuba.

Class of 1924

John L. McBride to Miss Ellen Haney, daughter of Mr. and Mrs. Thomas Haney, of Bethlehem, on April 13. James Hanlon, '27, was best man. Mr. and Mrs. McBride will reside at 1640 Main Street, Bethlehem.

William P. Wooldridge to Miss Bernice G. Stengel, daughter of Mrs. J. August Stengel, of 375 Mount Prospect Avenue, Newark, N. J., on May 13, in the Third Presbyterian Church, Newark. Thomas Conley and Carroll Stille, classmates of the groom, were among the ushers.

Class of 1927

Lewis S. Kent to Miss Madelyn Ames, daughter of Mr. and Mrs. Wickham Ames, of Montclair, N. J. Several fraternity brothers of Kent were ushers, including Sheldon Hubbard, '25, Charles Brooks, '25; Harrison Conrad, '27, and Julian Frey, '27.

Class of 1928

Alfred V. Harris to Miss Eleanor Schwartz, of Allentown, on March 26, in Allentown. Mr. and Mrs. Harris are abroad on their wedding trip and expect to reside in New York on their return.

Roland J. Jones to Miss Elizabeth A. Rodgers, daughter of Mr. and Mrs. Edward J. Rodgers, 619 West Broad Street, Bethlehem, on April 6. Mr. and Mrs. Jones will reside in Philadelphia, where he is with the Duoflex Piston Ring Company.

BIRTHS

Class of 1919

Born to Mr. and Mrs. Benjamiu H. Rigg, a daughter, Nancy Ann, on March 21, at West Palm Beach, Florida.

Class of 1921

Born to Mr. and Mrs. R. C. Hicks, of Philadelphia, a daughter, Betty Lee, on November 8, 1928.

Class of 1923

Born to Mr. and Mrs. Robert S. Pfahler, a daughter, Carol, on March 12. This is the third daughter born to Mr. and Mrs. Pfahler.

Born to Mr. and Mrs. Donald M. Quick, a son, on March 26.

Class of 1924

Born to Mr. and Mrs. Wm. S. Davis, a son, in St. Joseph's Hospital, Reading, about May 1.

Class of 1925

Born to Mr. and Mrs. Clarke Trumbore, a daughter, on April 26, in Fitchburg, Mass.

PERSONALS

Class of 1874

55-YEAR REUNION, JUNE 8, 1929

Class of 1876

W. L. Raeder, Correspondent 713 Quincy Ave., Scranton, Pa.

To continue the reminiscences, when we matriculated 57 years ago, Packer Hall, Christmas Hall, the Observatory, of Lehigh Register fame, and the three houses "in eschelon" on the west end of the campus, were the only buildings thereon. The campus was dotted with stumps, and hedged in on all sides by a high picket fence painted red. Perhaps the incentive for the undergraduates, at times, to "paint the town red." I well remember this old fence because it was by it I first met George W. Wickersham, '77

There was a well-defined path through the underbrush on the east end of the campus, and a picket or two off in line with the "Alt Brauerei." The imagination of the reader and the older alumni will perhaps divine the why of the path and the missing pickets.

Class of 1877

H. S. Jacoby, Correspondent 650 Highland Ave., Bethlehem, Pa.

If anyone wishes to see a garden of many flowers in bloom from early Spring to late Fall, one that is cultivated by a graduate in civil engineering, he should inspect the garden of Percival D. Giess at 730 Prospect Ave., Bethlehem.

Henry S. Jacoby has returned to his home in Bethlehem after a five-months' stay in Washington, D. C. While there he was given the use of a private study room on the top deck of the Library of Congress, where he continued his researches in history and genealogy. He delivered an address on "The Pennsylvania Germans" before the National Genealogical Society on Saturday evening, April 6. He also spoke on the "Development of Religious Education During Two-thirds of a Century," before the Bolgiano Bible Class of the Foundry Methodist Church in Washington, D. C., Sunday, April 14.

G. W. Wickersham was a guest at a luncheon given recently at the Hotel Astor by the League for Political Education. A few days prior to this he spoke over the radio for WEAF's Voter's Service on "What Next?" a part of the "New Horoscope of Peace" series that they were broadcasting.

Class of 1879

50-YEAR REUNION, JUNE 8, 1929

F. W. Sargent, Correspondent Box 284, Mahwah, N. J.



SOUND PICTURES

... a product of the telephone

UT of a half century's experience, the Bell Telephone Laboratories developed for Western Elec-

tric the first successful system of sound pictures.

This system (embracing Vitaphone and Movietone) makes possible a great new art in entertainment. Now, in theatres all over the country—Western Electric equipped—you can hear stars of motion pictures, opera and stage in lifelike renderings from the screen. Producers who use the Western Electric sound system exclusively:

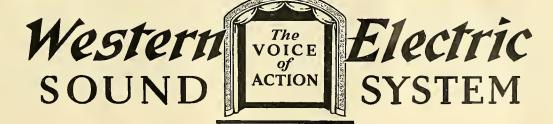
WARNER BROS.
FOX FILMS
VICTOR TALKING MACHINE
PARAMOUNT FAMOUS LASKY
METRO-GOLDWYN-MAYER
UNITED ARTISTS
FIRST NATIONAL
UNIVERSAL
HAL ROACH
CHRISTIE
COLUMBIA PICTURES
HAROLD LLOYD

Hear and see the world's greatest personalities as they talk from the screen.

Hear orchestral accompaniment played from the screen . . . the actual roar of an airplane . . . the thunder of galloping hoofs!

Yesterday's dream is today's fact. And tomorrow? Here is an art now in the early stages of its development which is revolutionizing the field of motion picture entertainment.

Watch-and listen!



Class of 1882

E. F. Miller, Correspondent 32 Franklin Ave., Merchantville, N. J.

Very little seems to happen to these hard boiled veterans. Taylor Allderdice resigned a mighty good job, at the first of the year. So few do, you know. It has also been printed that he is elected to a directorship in an industrial company, Dahlberg, if I recall the name correctly. We shall know more, when the stock circulars come out.

Rem. Peale has been elected to the advisory board of Pennsylvania State Col-tege. It is a safe het that it pays less than settling coal mine troubles. He has also taken on another job. He is on the board of governors of St. Francis Col-lege at Loretto, Pa. Same kind of pay. This remark applies also to the honor of presiding at the eleventh annual meeting of the National Coal Asso. at Clevetand, in November,

Class of 1884

45-YEAR REUNION, JUNE 8, 1929

A. Parker-Smith, Correspondent Suite 910, 36 W. 44th St., New York, N. Y.

The Class of '84 has been bestirring itself mildly in preparation for the 45th anuual reunion on June 7 and 8. Of the thirteen men on the list, eight have promised to attend: Watson, Focht, Jardine, Godshall, Radford, Douglas, Searle and Parker-Smith. Harper, living in Seattle, more than three thousand miles away, can not be present in person, although he always sends an enthusiastic telegram to show his classmates that he is thinking about them in his enforced absence. Kerr, who is vicepresident of the U.S. Steel Corp., has sent his regrets that he can not be present, and Haines reports that a trip to the Pacific coast makes it impossible for him to be at Bethlehem. Stewart and Strunk have not been heard from. Hopkins, '82 (who is a 50% '84 man, having taken his second degree of C.E. with that class), has promised to come also, if he can get away from his pro-fessional duties in Rochester, N. Y. The regulars who come back every year are living in hopes that some day one or more of the consistent absentees will hear the call and turn up at the annual "come back." The fact that the absentees do not realize the pleasures awaiting them in such an eleventh hour repentance is proved by the experience of Godshall, who last year showed up for the first time since leaving Lehigh, stayed throughout the entire alumni festivities, said he had a glorious time, and has now become one of the most enthusiastic fans of the reunion game.

The entire delegation expects to be present at the alumni get-together Friday evening and attend the ceremonies on Saturday. In the evening the usual informal little dinner at the Bethlehem Club, arranged for by the kindness of Reggie Radford, will give the class memhers a chance to continue their old acquaintances, and swap lies about the wonderful things they did while undergraduates, and the tremendous additions to the world's progress contributed by them since,—by virtue of their exalted standing as Lehigh graduates.

The headquarters of the class will be

the Hotel Bethlehem.

Class of 1887

F. S. Smith, Correspondent 438 Centre St., Bethlehem, Pa.

W. D. B. Ainey, chairman of the Pennsylvania Public Service Commission, was recently the guest of President Hoover at luncheon. Ainey has not been enjoying very good health of late so we were glad to hear that he is now feeling bet-

Class of 1888

H. S. Miner, Correspondent Welsbach Co., Gloucester, N. J.

A. E. Lewis has been confined to his home with inflammation of the veins of his left leg.

Class of 1889

40-YEAR REUNION, JUNE 8, 1929

C. W. Hudson, Correspondent 15 Park Row, New York City

Rah! Rah! Rah! Rouge e'noir, We Cry! We Cry! '89 Lehigh.

Here we are at our 40th reunion. Our President, Arch Johnston, has asked us to dinner, Saturday night, June 8th, at 7 o'clock (Daylight Saving Time), at his home at Camel's Hump, and no one who has been at one of Arch's dinners will stay away. Answer him on the return postal and tell him you will be there and "Do it now," so he may make his arrangements.

Call up your old room-mate, Fraternity brother, the fellow who took the same course you did, the '89 men who live in your city, work for the same firm you do. Write the fellow you have not seen for a long time and want to have there.

Yours for a great reunion.

WM. A. CORNELIUS, Sec.

I am glad to say that J. S. Kellogg, who was lost to our records for some time, has been located at 903 El Granito Ave., Porterville, Cal.

I have just learned, and I know the other '89 men will be interested to know that C. P. Turner has been in St. Petersburg, Fla., for some time.

Class of 1891

Walton Forstall, Gorrespondent Broad and Arch Sts., Philadelphia, Pa.

Since the most illustrious class continues to be as silent as the proverbial oyster, it seems necessary to take our cue from a classic scene in which oysters played a sustaining part, and with the Walrus, talk of "cabbages and kings." This is written the day after the Philadelphia performance of "The Bad Man" by Mustard and Cheese. It was witnessed by a select gathering, about "four hundred." Their applause and the appearance of the dancing floor later testified to the dramatic and social success of the occasion. So much for "kings." Now as to "cabbages." Why did so many Lehigh men fail to buy tickets or to be present? Surely they know that the return life gives is proportional to the investment in things that are worth white, and nothing could be more worth while than to embrace such an opportunity of supporting the undergraduates in a traditional Lehigh effort, and at the same time renewing old friendships and making new ones.

Class of 1894

35-YEAR REUNION, JUNE 8, 1929

Aubrey Weymouth, Correspondent 101 Park Ave., New York City

Colonel Godwin Ordway, having retired from the regular army, sailed for Italy the latter part of April for an extended vacation until October 1. He left his best wishes to all memhers of the class of 1894 for a happy 35th year reunion, and his regrets at not being able to be present.

Class of 1895

C. F. Townsend, Correspondent 405 Temple St., New Haven, Conn.

Henry Quigley as a member of the Montclair (New Jersey) Glee Club took part in a joint concert with the Hartford and New Haven Glee Clubs, given at Woolsey Hall, Yale University, New Haven, Conn., on the evening of May 3.

vocal chords at college vi-"Quig's" brated in the first tenor range but now respond as a second tenor; his son, however, is a first tenor in the same Montclair Glee Club .- Close Harmony.

We are pleased to hear from Stanley C. DeWitt, whose address had been lost ou the records. He is sales promotion engineer with the Dominion Electric Protection Co., at 92 Adelaide St., West Toronto, Canada. He is living at 116 Deloraine Avenue, in that city. He says that from December, 1927, to November, 1928, he was under the doctor's care and not located in any one place, but he has now fully recovered and is enjoying work again.

Class of 1896

REUNION, JUNE 5, 6, 7, 8, 1929

W. S. Ayars, Correspondent 410 Eng. Bldg., Broadway at 117th St., New York City

Morris Pool sends in a card calling attention to the removal of his law office to 63 Wall St., New York City, where he is associated with Clifton V. Edwards and Frank A. Bower, under the firm name of Edwards, Bower and Pool.

A letter to Bill Dickerman, asking him for the latest about himself, found him out of town; but his cheerful and efficient secretary replies that in the absence of his chief, he can at least help me out to a certain extent, and writes:

"You may not be aware that on April 18, Mr. Dickerman was elected president of the American Locomotive Co. and assumed office at once. As you will note by the letterhead, he is still located at 30 Church St., New York City."

My recent follow-up, as I anticipated, hit at least one man who had already sent in a letter, the same being lost somewhere, either en route or in my own office. This was Prof. Bert Beck, of Franklin and Marshall College. wrote him back a sufficient humble excuse, and he has written again-this time a veritable rhapsody about a certain collection of stuffed birds that at one time was housed in the top floor of Packer Hall. Bert says it has left even touder memories than Charles Reunig's, so they must be very fond memories. Personally, I remember Charlie's very well indeed, but I can't remember anything about any birds-at least, any stuffed ones. I can recollect quite a few "birds," but they were very much alive and roamed at large; and while some



G. W. RITCHEY	'93
T. M. GIRDLER	10'
M. D. KIRK	'06
J. B. CARLOCK	.07
W. C. VAN BLARCOM	'10
J. GORE, JR.	'12
H. W. GRAHAM	'14
G. M. YOCUM	17
H. K. BRADY, JR.	'21
W F DOUGLASS	'26

J & L STEEL PRODUCTS OPEN HEARTH AND BESSEMER STEEL

HOT ROLLED PRODUCTS

Blooms Slabs Sheet Bars
Bands Flats Hexagons
Rounds Squares Angles Beams Channels Tees Zee Agricultural Shapes Special Shapes Light Weight Stair Stringer Channels Plates for Bridges, Tanks, Roilers, Cars and Ships

RAILROAD SPIKES TIE PLATES
Light Rails and Accessories

RARS FOR CONCRETE REINFORCEMENT

FORGING STEEL

JALCASE STEEL
Hot Rolled Cold Fluished

COLD FINISHED STEEL Shafting and Screw Stock
Squares Hexagons Flats Special Shapes
Pump and Piston Rods Rounds

JUNIOR BEAMS

STEEL PILING

FABRICATED STRUCTURAL WORK
Girders Trusses Columns
Plate Work
Mill and Factory Buildings

TUBULAR PRODUCTS Standard Pipe Line Pipe Casing, Tubing, Drive and Rotary Drill Pipe in Lapwelded and Seamless

WIRE PRODUCTS

WHEE PROBUSTS
WITE BOOS
WITE BOOS
Bright, Annealed and Galvanized Wire
Spring Wire Barhed Wire Woven Fencing
Bright, Coated and Galvanized Nails
Fence Staples Netting Staples

Coke Tin Plate
TIN MILLS PRODUCTS
Black Shoots

Billets

Black Sheets (Tin Mill Sizes)

COKE BY-PRODUCTS

J & L SALES OFFICES

ATLANTA BOSTON BUFFALO CHICAGO

> MEMPHIS MILWAUKEE MINNEAPOLIS

CINCINNATI CLEVELAND DALLAS

NEW YORK PHILADELPHIA PITTSBURGH

DENVER DETROIT ERIE

LOS ANGELES ST. LOUIS SAN FRANCISCO

WASHINGTON

CANADIAN REPRESENTATIVES

JONES & LAUGHLIN STEEL PRODUCTS COMPANY Pittsburgh, Penna., U. S. A. Toronto, Ontario, Canada

J & L WAREHOUSES

CHICAGO CINCINNATI MEMPHIS PITTSBURGH

JONES & LAUGHLIN STEEL CORPORATION

Jones & Laughlin Building · · Pittsburgh, Pennsylvania

were quite high fliers, none of them had any wings that you could notice. Bert got so interested in birds from looking over this collection that he says he has made a study of bird life his pet avocation. From his bird studies he has been

led to remark:

"There are few mysteries more profound than the designs of Nature.
Among many of these, there are but several definitely obvious enough to be clear to me. One of these, Bill, is that Nature never made man to work in a chemical laboratory." Then he gets poetic; list, O list!:

"The old Werner Collection helped this maladjustment. It so tuned me up to bird life that my automatic recreation has been afield, exhaling chlorine and hydrogen sulphide and inhaling, hesides the air of out-of-doors, happy touches of the picturesque, the beautiful, the alluring-subtle inhalations that have done prohably more to improve the tastiness of my life than any other factors."

Can't anyhody else take a leaf out of

Bert's book and tell something about his

bobbies and avocations?

There has also been a letter from Bill Harned. Bill tried one year, if I remember rightly, as an embryo mechanical engineer, and then left us for other fields. And how far he has strayed may be judged from the fact that his letter is written on the stationery of National Capital Oratorio Association, which has modestly printed in the corner, "Albert W. Harned, Director." Amongst other things, he writes:

Amongst other things, he writes:

Here I am, after shovelling coal and pulling a throttle, trying to make believe that I was a student, pulling off some fool line pictures which some people took seriously and called me a mechanical engineer, just a unt musician. Even now, people are inclined to take me seriously and last Christmastide a chorus of 250 with an orchestra of 60 became sufficiently Svengalized to enthuse a big audience on a rainy night in the production of Handel's "Messiah." Too, there are several singers who have had the insane idea that I could teach them how to collect the shekels—among them Jessie Masters, contralto; if you have not heard her it is your loss. * * * If any of the ignorant scandal mougers ever come to Washington, advise them to come and see me and ignorant scandal mougers ever come to Washington, advise them to come and see me and hear the worst. Address as above. * * * There you are! Some of it! Could write a hard-luck story ahout a mile long, but you know nobody wants it. (The address alluded to is that of the National Capital Oratorio Association, 1317 New York Ave., Washington, D. C.)

To wind up the personals for this treat what seemed here are not recommended.

year, what could be more appropriate than a letter from S. M. Dessauer him-

We have been called upon by BIG BILL OF THE A-YARS, the Grand Scribe-Scribunktabus of all the '96 Scribeneros, to PRODUCE. The call was long, loud, even somewhat boisterous, typically insulting—and effective. The far-flung defi is accepted; and all who read, but do not run away, must suffer. Here it it:

WHOOPEE-'96!

WIIOOPEE—'96!

The annual alumni roundup, according to 'varsity schedules, is slated for the evening of Friday, June 7, and the day and night of Saturday, June 8. Some years ago, it was decreed by several of the elder sages, including oue of the prominent red-headed chiefs, that the above-allotted time was entirely too brief in which to transact all the business of our particular tribe. So another night and day were added. This helped some—but even so, the relief thus afforded proved insufficient for the more active and better preserved clansmen. Therefore it has appeared advisable again to amend the by-laws, and add another day and night.

night.

In other words, our own private little rodeo will start at 7 P.M. on Wednesday, June 5, and continue until all are either satisfied or exhausted. We anticipate closing the exercises some time late on Sunday. The Big Show will be going on all the time inside the '96 Wigwam at the Hotel Bethlehem, Bethlehem, Pa. If you

desire a blanket and fodder, communicate direct with the hotel without delay. Just write '96 after your name and there will be no argu-

ment.

This is all. Enough is enough. The Wise will be there all of the time; the Busy and Conservative will be there some of the time, and the Foolish will put it off until another June. And some day, there wou't be any more

In conclusion, let this he my answer to you, BIG BILL OF THE A-YARS, GRAND SCRIBO-SCRIBUNKTABUS—we shall meet at Bethlehem. The choice of weapons may rest with you—but 1'll bring my own.

(Signed) S. M. DESSAUER, Secretary.

The above startling composition blew in on the morning of May 7 and tells its own story. It must have been boiling in Sammy for a long time, and my last hurry-up letter evidently caused the safety valve to pop. But instead of throwing epithets at me, he ought to be mighty glad that he, as permanent secretary of the class, hasn't got the job of making up this column once a month.

Class of 1897

J. H. Pennington, Correspondent McFarland Foundry and Machine Co., Trenton, N. J.

Last month we left a nice white blank space in this column, to show you hirds how it looks when you do not send us any news of yourselves. We could do the same this month, as far as having news to publish is concerned, but Buck says we must earn our pay and he would not permit it.

We could also manufacture some news, but then there would be libel suits to contest. We are in an awful hole, no matter which way we turn. The June issue is rather too late for us to urge the payment of dues for this year or for asking you to come back on Alumni Day, or to stress the desirability of your becoming a grand-dad.

We might say that we attended another Sub-Freshman Day this Spring and looked all around for other '97 men, but our eyesight must be growing dim, as we failed to locate any. Our excuse this time, for going back, is that we expect to enter another son in the next freshman class, and, of course, he had

Gosh! how nice they are to the prospective freshmen. They give them all kinds of nice entertainments,-baseball and football games, dinners, auto rides, and high living at the fraternity houses. No intimation of the rough time ahead next Fall, when the sophomores are turned loose on them, and they have to do all the menial work around the aforementioned houses.

We did receive a nice note from Barton saying, among other things, that he has not had two days off, for his own pleasure, in three years. This almost jeopardizes our own record, but not quite. Bartow has promised himself a trip to Europe next October. He does not say that it is to be a wedding trip, but we have our suspicions.

Class of 1899 30-YEAR REUNION, JUNE 8, 1929

Arthur W. Klein, Correspondent 43 Wall St., Bethlehem, Pa.

Rudolph Degener is now living at the Queen's Park Hotel, Trinidad, B. W. I. He regrets that it will be impossible to make the round trip of 4000 miles involved in a return to Bethlehem for the '99 Reunion.

Pop Klein received a card a few days ago from Garth Bainbridge Luten. The Class has been out of touch with him since the time he left college-somewhere during our sophomore year. He wrote from Hickman, Ky., where he now resides, acknowledging the invitation to the 30-year reunion dinner, and recalling some incidents of student days. thought he would be unable to attend the reunion, but Pop hopes to persuade him to the contrary.

Charlie Masson, writing from Los Angeles, Cal., where he has made his home for many years, regrets the present so-called prohibition regime. His family operated the Pleasant Valley Wine Co. in the old days, and produced American champagnes, of which Great Western Extra Dry was particularly well known. At one of our reunion banquets held many years ago, Charlie furnished the champagne. He wishes he could bring some with him on his next trip to Bethlehem and we do, too! But there is none to bring-at least no Great Western.

Class of 1901

E. T. Murphy, Correspondent Carrier Eng. Corp., 850 Frelinghuysen Ave., Newark, N. J.

In one of my recent letters I threatened to do some hoasting about this class of ours. With so much material at hand, it seems only right to start with the President of the Alumni Association, Tom Girdler.

Cad Evans writes me of his early association with Tom in the Oliver Iron and Steel Co., and more particularly looks back with much sentiment to Tom's wedding.. I am going to take the liberty of quoting one pargraph.

"I was an usher at his wedding in Lonisville, Ky., and received from his hands a beautiful flask which I still More valuable, however, than the flask were the contents. The ancestors of Tom's wife, living in Louis-The anville, had contact with the best the country produced, and a demijohn of this was kept by her father in his office safe, in a compartment that looked as though it had been designed to hold bullion. After presenting the flask, he solemnly led me to the father-in-law's office, where there was a brief ceremony, following which the safe was opened and my flash was filled from the demiiohn.'

Tom has had a very active and interesting career, and there is no telling just how much farther he is going, considering the speed with which he has reached his present position of promi-

He finished his work a few months before the rest of us in 1901 and after some preliminary training in the home office of the Buffalo Forge Co., was sent over to England to work with D'Arcy Roper, but after a year of this he went with the Oliver Iron & Steel Co. as foreman of a bolt shop. As Cad expresses it, Tom ran the nut department while he manufactured bolts.

The next experience was with the Colorado Fuel & Iron Co. as assistant superintendent of the Merchant Mills Bolt and Spike Factories. He then moved over to the Bessemer and Rail Mill Departments and from there to the Atlanta Steel Co. as superintendent of Rolling Mills in June, 1907. The following year he became general superintendent of the Atlanta Steel Co., and in 1914 went to the Jones & Laughlin as assistant to the general superintendent of the Aliquippa Works. He was made assistant general superintendent in 1917, and general superintendent in 1920. Following this he was made general manager of the company in 1923, director and vice-president in charge of operations in 1925, and president in 1928.

1925, and president in 1928.

I think you will agree that this is

some speed.

At present he is chairman of the boards of the following companies owned by the Jones & Langhlin Steel Corp.: Blair Limestone Co., Interstate Iron Co., Interstate Steamship Co., Jones and Langhlin Ore Co., Leetonia Mining Co., Shannopin Coal Co., The Vesta Coal Co., Woodlawn Land Co., Jones and Langhlin Steel Products Co.

Tom is trustee of the Equitable Trust Co. of New York, and, for good measure, director of the Frick-Reid Supply Corp., American Iron & Steel Inst., Union National Bank, Petroleum Corp. of

America.

In order to fill in some of the rest of his spare time, he is active on the advisory board of The Penn State School of Mines and Metallurgy, and on the Mining and Metallurgical advisory board of Carnegie Tech., and last, but not least, President of the Lehigh Alumni Association.

Here's looking forward to seeing you in June.

Class of 1903

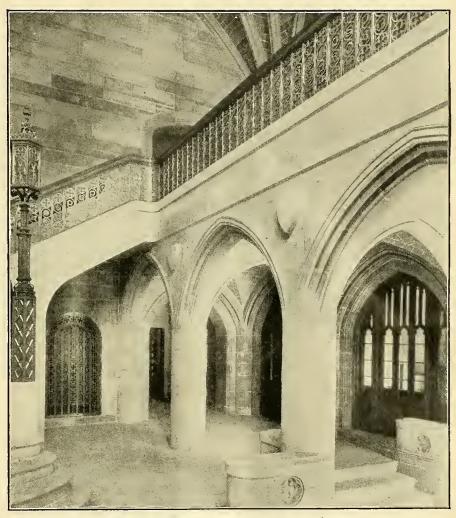
S. P. Felix, Correspondent Schaff Building, 15th and Race Sts., Philadelphia, Pa.

George Goodwin comes to bat with a belated comment in connection with his 9000-mile journey about the country—"I forgot to mention that one of the most soul-satisfying results of my journey was the re-establishment of my simple faith in Yock Fuller. You will remember that one of his patient Kaffirs burying themselves in the sands and breathing through straws while they waited for those naughty Germans to encamp just above their noses? I had experimented some and found it wouldn't work unless diluted with a minimum of 3-44/100% of alcohol. Now a dozen nights as guest to the Pullman Company have convinced me that American traveling men could have done it without bothering with a straw!'

Jack Fuller writes: "What with floods, cyclones and other things I have not done anything but pump out flooded mines and cuss the weather. In this part of the country the distribution of air and water has been badly managed by someone. We have too much air in some places and too much water everywhere."

The above reminds me of the chap who visited Venice and on being asked how he liked it, remarked "he only stayed a few days as it was flooded!"

Dyer Smith writes: "Your postal just received. The Bulletin some months ago said, in your column, that my address was not known and that Dave Smith had hunted for me here last Spring without success. Now, my address has always been on file at the L. U. Alumni Association and I have always been in the London telephone book. I moved last Winter to the address on this card, 7 Kings Beach Walk, Temple. It is like a New England college campus in here. Dave Smith is here now and has found me this time, and I have enjoyed seeing him. My full name is Philip Sidney Dyer Smith and



Interior view, Chicago Theological Seminary, Chicago. Riddle & Riddle, Architects. H. B. Barnard, Builder.

Fine Enough for All Interior Work

FOR interior as well as for exterior use, architects use Indiana Limestone. The all-stone exterior, so much admired, is not prohibitively expensive. New methods and large scale production of Indiana Limestone make this beautiful, light-colored natural stone moderate in cost.

The texture of Indiana Limestone varies from the almost invisibly fine to rather granular. This stone, while not too hard to be cut with the greatest ease into any required shapes, yet is tough enough to be deeply undercut and carved into

the most delicate ornament and tracery. When exposed to the air for a time in a building, it becomes seasoned and is then quite hard and practically everlasting.

Let us send you our illustrated booklet showing samples of school and collegiate buildings of the better type. Many trim as well as allstone buildings are shown in its pages. A reading of this booklet will give you a clear picture of what is being done the country over in college buildings. For the booklet, address Dept. 836, Service Bureau, Bedford, Indiana.

INDIANA LIMESTONE COMPANY

General Offices: Bedford, Indiana Executive Offices: Tribune Tower, Chicago

Bethlehem Foundry & Machine Company

GENERAL FOUNDERS

and MACHINISTS

BETHLEHEM, PENNA.

W. A. WILBUR, Hon. '20 Chairman of the Board J. GEORGE LEHMAN, '96 President ROBERT E. WILBUR, '04
Ist Vice-President
G. ERNEST FINCK,

Treasurer

I. E. KRAUSE, Secretary

ASHLAND COAL & COKE COMPANY

BLUEFIELD, W. VA.

OLD BEN COAL CORPORATION

CHICAGO DETROIT CINCINNATI MINNEAPOLIS KANSAS CITY OMAHA

ST. LOUIS NORFOLK

Exclusive Sales Distributors

NO. 3 SEAM, POCAHONTAS, LUMP, EGG, WASHED STOVE, WASHED NUT, AIR CLEANED SLACK AND ROM

MINES AT
ASHLAND, McDOWELL COUNTY, W. VA.

W. A. RICHARDS, '17 President H. D. SMITH, '08 Asst. to the President I sign myself P. S. Dyer Smith over here."

The address mixup was not ours, Dyer, as we have had it for a number of months.

Everybody will be pleased to learn of Al Glancy's new job—President of the Alumni Association! This is the first time our Class has been honored in this manner. Aside from Al's accomplishments—for which all of us admire and respect him greatly—it is because of his most likeable manner and charm that we all love him and any further success that may be his, only adds to our pleasure.

Al was principal speaker at the annual banquet of the Newark Automobile Trade Association some little while ago and I quote from the reporter's interview with him: "Hard work and similar qualities are essential to success but luck plays a prominent part. For instance, I attended Lehigh University because I happened to meet a friend who gave me a free scholarship which he was not going to use. I had previously commenced a law course, but was told that the finest fellows in Lehigh were taking engineering courses. So I took mechanical engineering. That's why mechanical engineering. That's why I'm not a lawyer. Luck? One hundred per cent!" After various positions in the engineering field, Mr. Glancy's luck again overtook him. He was offered a job in Cuba at \$175.00 for a single man or \$225.00 and a house for a married man. He married and went to Cuha. His son was the first white child born east of Santiago. After the war Mr. Glancy became connected with General Motors. He took charge of the run-down malleable iron plant, reorganizing it as the Glancy Malleable Co., and sold motor castings on a competitive basis to the General Motors units. In 1924 be was made president and general manager of the Oakland Motor Car Co. He developed the Pontiac Six and doubled Oakland sales.

Class of 1904 25-YEAR REUNION, JUNE 8, 1929

F. P. Sinn, Correspondent 160 Front St., New York City

Bill Pollitt promises to be on hand for the reunion. He has a son graduating this June. Why did you not tell us about this son before, Bill?

C. E. Yost writes in from Bellflower, Cal., that he is too far away to make the reunion and is sorry not to be with us. Yost is a practicing civil engineer at Bellflower, Cal.

Leigh Morss is living in Scranton and regrets that he will not be able to attend the reunion.

Charlie Folsam is in the United States Engineering Office in St. Louis and is busy with the Mississippi Valley water problems. Charlie is awfully anxious to get back in June but is afraid he will not be able to do it.

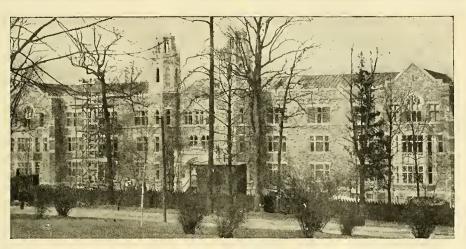
Class of 1905

W. H. Lesser, Correspondent Third and Frack Sts., Frackville, Pa.

No personals will appear in the Bulletin until the October number. I hope the boys have enjoyed the notes. I know that I got a kick out of the work connected with getting them together.

J. H. Wolfe was elected judge of the district bench of Salt Lake City last November. This is rather a late news

Lehigh's Best Advertisement is Her Alumni



The James Ward Packard electrical and mechanical engineering laboratory, to be in use in the Fall of 1929, will give Lehigh engineering students the advantages of the finest in laboratory equipment

LEHIGH'S COLLEGE OF ENGINEERING

This college offers recently revised courses in Civil Engineering, Mechanical Engineering, Electrical Engineering, Metallurgical Engineering, Mining Engineering, Chemical Engineering, Chemistry, Industrial Engineering, and Engineering Physics.

RECENT GENERAL REVISIONS IN LEHIGH'S ENGINEERING COURSES

AN INCREASED AMOUNT of time devoted to fundamentals of engineering, especially mathematics, physics, chemistry and mechanics, with a corresponding decrease in the time allotted to specialized technical instruction.



A SUBSTANTIAL INCREASE in non-technical subjects, particularly the sciences which deal with human relations and the methods of business organization and administration.

A UNIFORM FRESHMAN YEAR now prevails in the College of Engineering, so that no student is required to select his course of study until he is prepared, after a year of college work, to choose wisely. There is also sufficient similarity in the second year's work in the various curricula to enable a student to change his course with very little loss of time and effort.

* * * *

These revisions of the engineering curricula were formulated on the basis of an intensive study by the faculty of Lehigh University, of the problems of technical education and the demands of modern industry.

For detailed information relative to the engineering curricula or any other curricula at Lehigh, address the Registrar.

PASS YOUR "BULLETIN" ON TO SOME PROSPECTIVE LEHIGH MAN

J. S. ROBESON, '86 PENNINGTON, N. J.

Lignone

a smokeless odorless
Binder
for coal briquets

BRIQUET ENGINEERING MACHINES BINDERS



E. T. MURPHY, '01 Vice-President W. A. BORNEMANN, '17

S. P. EAGLETON, '26 Design

A. W. CANNEY, '27 Design

SALES OFFICES

New York Philadelphia
Boston Chicago
Cleveland Kansaa City
Los Angeles Washington

Air Conditioning

Designs and installation of equipment to create and control automatically any desired conditions of Humidity, Temperature and Air Movement within buildings. Cooling and Dehumidification by Carrier Centrifugal Refrigeration.

Drying and Processing

Automatically controlled equipment for air drying, moistening and processing of manufactured and raw materials.

Specific Information on Request

Carrier Fingineering Corporation

Offices and Laboratories
NEWARK, NEW JERSEY

Pumping Machinery

Wilson-Snyder Manufacturing Co.

PITTSBURGH, PA.



H. D. WILSON, '01, President

item, but we just got it. His address is City and County Bldg., Salt Lake City.

A. J. Warlow is assistant chief engineer of construction for the Department of Property and Supplies, Harrisburg, Pa.

Class of 1910

M. L. Jacobs, Correspondent 837 Tioga Ave., Bethlehem, Pa.

Carvill Gorman says he has been coaching the Mansfield, Ohio, High School wrestling team for the past eight years, and that they are now the State Champions, and have never lost a meet. Pretty good record, say we!

W. J. Robbins is playing in hard luck. At present he is on a leave of absence from his chair as professor of botany at the University of Missouri and is in Paris. He mentions his diversions at present as those obtainable in that fair city. Oh, boy! And he says his wife and three boys are in Switzerland. Didn't I say he is playing in hard luck? Who denies it?

J. W. Kniffen, president of our class in our freshman year, is general manager of the Cia Carbonifera de Sabinas, S. A., for the A. S. and R. at Rosita, Coah., Mexico. The operations include coal mines, byproduct coke plant, and a zinc smelter. Also probably Tequila and Aguadiente of happy memory.

Now here is some real news that deserves special mention. Harry Kaufmann has a son, Emerson W., in the freshman class at Lehigh, taking chemical engineering. The lad is 6 feet 3 inches tall, and is a comer. Who else can say as much?

Caleb Kenney says I know too much about him already. Well I know this much, he hasn't changed in any way, except that he is even more so than ever, and you all know what a grand scout Caleb was in the old college days.

And here is P. H. Thayer who in 1913 married Jeanne Pushee, Smith 1912. They have two children, P. H., Jr., and Jean Esther. Oh, yes, they live in Cambridge, Mass., and he is president of the Burton Brush Co., whose product is paint brushes.

Howard Fry, you remember him, a damned electrical, is teaching, among other things, surveying (shades of Pop Merriman!), physics, math and what not at F. and M. Says he likes the place. Anyhow, I'll bet they haven't any peppier profs than Howard.

Do not forget the reunion next year; come one and all.

Class of 1911

A. P. Spooner, Correspondent 1811 Sycamore St., Bethlehem, Pa.

John Griffen recently returned from Europe, where he was studying coal cleaning methods. He visited England, Wales, Brussels and Germany, and tells us he enjoyed his trip by air from Brussels to London, and from there to Hamburg, very much.

Class of 1913

R. T. Dynan, Correspondent 540 Eighth Ave., Bethlehem, Pa.

R. B. Meredith is now living at Apt. 6, 2035 Channing Way, Berkeley, Cal.

J. H. Sheppard is representative of the National City Co. at 417 Michigan Trust Bldg., Grand Rapids, Mich. He lives at Oakwood Manor, Grand Rapids.

Class of 1914 15-YEAR REUNION, JUNE 8, 1929

J. O. Liebig, Correspondent 324 N. 15th Street, Allentown, Pa.

LAST CALL FOR 1914

You all know by this time that 1914 is booked for a Whoopee 15-Year Reunion. You have received, each and every one, sufficient dope by this time to make your blood boil and long for Old South Mountain. What could be more thrilling than our Big Alumni Gathering at the Hotel Bethlehem, June 7, and then our own class banquet, June 8, at Spring Valley Inn, back in the hils? To those who have failed to advise us of their return, just forget your home town surroundings for a couple of days, shoot in your check, be on deck, by beck, with the rest of the peck.

We were extremely moved by the news of the death of our good friends and classmates, Dick Gifford and Miles Merwin, and extend our sympathies to their families. No finer fellows ever lived and they leave a sad gap in the '14 roll call.

We have new addresses for the follow-

E. E. Saunders, 816 Prospect St., West-

field, N. J.

D. H. Rees, 2110 Glendale Ave., Beth-lehem, Pa.

A. R. Sanchez, Gomez 19, Nuevitas, Cuba.

Lewie Thornburg wrote us a very nice letter. He is working hard, as some of you know by this time, on our 15th anniversary.

Class of 1917

- G. K. Bishop has moved to 175 W. 76th St., New York City.
- S. T. Edwards is now with E. W. Clucas and Co. at 60 Wall St., New York.
- A. C. Hoover's address is 21 N. Austin Blvd., Chicago, Ill.
- C. Wilson, Jr., can now be reached at 2105 Pius IX Ave., Montreal, Canada.
- A. L. Buell is still with Day and Zimmerman, Inc., but his office has been moved to 112 N. Broad St., Philadelphia, Pa.

It's good to hear from Roy DeLaney again. He is with the Universal Steel Co. at Bridgeville, Pa., and living at 620 Elm St., in that place.

Dick Kirkpatrick who was in Milwaukee now has his office at 2350 Penobscot Bldg., Detroit, Mich. Still sales manager and still with the P. and R. Coal and Iron Co. His home address is 2719 Woodstock Drive, Detroit. Guess Dick moved so as to join the Detroit Lehigh Club.

H. J. Pardee has joined the commutors. His present address is 310 N. Maple Ave., Ridgewood, N. J.

Rem Peale is in Europe for some weeks, gone on business of the coal cleaner.

W. K. Wilson has moved to 28 Newfield St., East Orange, N. J.

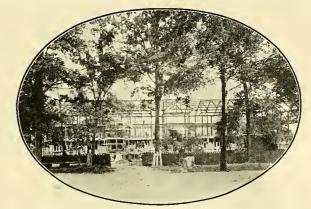
Daniel S. Whiteman who is treasurer of the Reilly-Whiteman Co., of Conshohocken, Pa., manufacturers of textile oils and leather dressings, visited the campus on April 22 to consult with some of the faculty experts on technical problems of his business. Whiteman stopped in the Alumni Office for a little chat and reported that everything is going nicely with him.

BETHLEHEM FABRICATORS

INCORPORATED

OFFICE AND WORKS -BETHLEHEM, PA.

STRUCTURAL STEEL FABRICATORS AND ERECTORS



James Ward Packard Laboratory, Lehigh University,

AGENTS

HARTFORD, CONN. PHILADELPHIA, PA. ALBANY, N. Y. BUFFALO, N. Y. ALTOONA, PA. CLEVELAND, O. ALTOONA, PA. CLEVELAND, O. HAZLETON, PA. BALTIMORE, MD. DALLAS, TEXAS NEW YORK, N. Y. SCRANTON, PA. WASHINGTON, D. C.

R. P. Hutchinson, '04 J. H. Traeger,

G. M. Overfield. '14

S. B. Hutchinson, '25



SPECIALISTS

Design and Construction

AUBREY WEYMOUTH, '94 Chief Engineer

American Abrasive Abetals Co.

(Founded by Wm. H. Sayre, '86)

50 CHURCH ST.

NEW YORK CITY

FERALUN

[A patented combination of iron and abrasive grit]

To Prevent Slipping Accidents

Its peculiar properties make it the longest wearing, most efficient anti-slip material obtainable

- For -

Floor Plates Stair Treads and Landings Door Saddles Elevator Door Thresholds Coal Hole Covers Cover Plates, etc.

Car Steps and Platforms

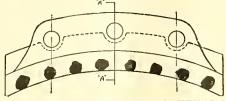
For General Industrial Uses

Its extreme durability, when subjected to severe abrasive action makes it most useful and economical in a wide variety of fields

Wearing Plates
Pug Mill Paddles

Rabble Blades Liner Plates, etc.

Brake Shoes for Mine Motors (Grinding and braking combined)





Side view and section of "FERALUN" BRAKE-SHOE showing where the Abrasive is placed

For Special Work—where Bronze or Aluminum is required

"BRONZALUN"

"ALUMALUN"

(The "Grit" Cast in Bronze)

(The "Grit" Cast in Aluminum)

Sole Representatives for United States and Canada for "CARBORUNDUM ANTI-SLIP TILE"

> R. S. EDMONDSON, '06, President G. P. BARTHOLOMEW, '96, Vice-Pres. WM. H. SAYRE, '24, Vice-Pres. AUSTIN R. SAYRE, '24, Vice-Pres.

GEORGE C. HUTCHINSON, '94 District Bepresentative Farmers Hank Bidg., Pittsburgh, Pa.

Class of 1918

A. E. Buchanan, Jr., Correspondent Bethlehem, Pa.

You fellows are entitled to gripe about the scarcity of class notes in recent issues and I'll take all the blame. It's not that I didn't have the dope to put in here, but simply because I happen to be editor of the BULLETIN. You see, I persuaded somebody in all the classes to seud in class letters and they've been flooding me with so much dope that I simply couldn't get it all in the space available. Rather than cut some faithful correspondent's "copy," I've simply left out my own. This is going in this month, however, if I have to leave out everything else, because I want to apologize for giving you birds such a deal and to thank you for standing for it as you have.

Jack Early is back in Brooklyn, with Kenyon Tire and Rubber Co. He worked for them several years back, but had to stay away a while to make them appreciate him.

Hear that Joe Holmes is back East, with the Pan American Petroleum and Transport Co., at 120 Broadway. Is that right, Joe, or is it just a forwarding address? If you're that close to home, I want to see you.

Russ Lindsay has moved over to join the Jersey commuters. Living at 491 Ridgewood Road, Maplewood.

What do you know about Bob Campbell? Left beautiful Pittsburgh cold to live in Beverly Hills, Cal. (601 Cannon Drive). Always thought Bob was one of Mr. Pitt's favorite nephews with soot in his very blood and now I can just hear Whitey Lewis and Bill Tizard gloating over another '18 soul brought to salvation and the Golden Gate. Hallelniah!

Wes Dodson is in Beslem, working for H. E. Stoudt & Son, general contractors. Full of "pep" as ever, is Wes.

Jimmy Gross has struck a neat graft with Borneman, '17. Jimmy goes around peddling silk to makers of socks and shimmies and when his customers tell him the damn stuff's no good, he tells 'en that the silk's all right only they ought to keep their factories properly humidified. A couple days later Borny "happens" to drop in and sells the mill a Carrier couditioning outfit. Then Jimmy and Borny—well, I can't prove anything, but figure it out for yourself. Anyway, both are moving products, thank you.

Rem Peale has been on the road a good deal this winter, in the interest of Peale's new coal cleaner. Of course, the soft coal operators are on the verge of starvation, but Remmy seems to be bearing up bravely.

Bob Brinton is in the oil refrigerating equipment business in Houston, Texas. Office, 1913 Post Dispatch Bldg. So Jake Bishop is no longer the lone '18 star in the Lone Star state.

Met Henry Shepherd at a meeting of the Washington Lehigh Club. Outside of a few gray hairs, Henry is just the same and it was a treat to see him again. He's with Wright, Slade and Co., brokers, in the Capital and living at 2231 Baucroft St.

Tubby Ambler, Harold Boyd, Murphy and I represented '18 at a big Lehigh meeting in Scranton last month. Tubby is with the Highway Department, Harold with Hudson Coal, and Murph still runs the china store in Wilkes-

Barre, but hark,—he has revived his old *Burr* training and during one of the speeches he gave birth to the following on the back of the menu:

Of all the dames, it seems to me
The deepest sunk in idiocy
Is that one who is so depraved
She thinks she has all meu enslaved.
She is a very charming creature,
Her charm is her outstanding feature.
But there are other dames on earth;
Of charming girls there is no dearth.
Foolish lady! Banish the thought
You're not the first girl God hath
wrought.

In short, you're not the only one; You're just E pluribus U-num!

Are there any other nominations for poet laureate of the class?

Buck.

Class of 1919

A REAL PARTY FOR '19 MEN THIS JUNE.

J. W. Gardiner, Jr., Correspondent
% John T. Lewis and Bros. Co.,
Widener Bldg., Philadelphia, Pa.

The list of those who will attend reunion is certainly growing by leaps and bounds. So many are coming that you certainly will be conspicuous if you stay away. Those who are not going to stay away are:

Tommy Atkins, Louie Bauman, E. M. Berger, Bert Bertolett, Ken Bevier, Tom Bray, Buck Buckley, C. J. Cardin, Roy Coffin, Gil Doan, Dave Dorkin, Larry Doyle, F. J. G. Duck, R. L. Eisenhard, Juan Freixas, Joe Gardiner, Gordon Gildersleeve, Charlie Gilman, Howard Ginder, C. E. Hayes, Fred Hazeltine, Johnny Heilman, Freddie Hesselschwerdt, Huck Heuchel, Mike Hunt, Edgar Iobst, Walt Johnson, R. R. Keim, Niel Kennedy, Johnny Knubel, Mickie Kirk, Scotch Lauder, Pete Leverich, L. R. Lewis, R. W. Ludlow, Buckie Macdonald, Milt Manley, C. G. Melville, Reds Nawrath, Red Nesselbush, Bob Rosenbaum, Joe Rosenmiller, E. M. Rowand, Otto Schaub, Pop Shipherd, Otto Spillman, Zip Wagner, Harold R. Walters, Bill Winterhalter, Bill Whigham, Porgie Whitney, Charlie Yard and Doc Zeller.

F. J. D. Duck recently resigned from the McGraw-Hill Publishing Co. to become assistant publicity manager for the Worthington Pump and Machinery Corp., at Harrison, N. J. He is in charge of all newspaper and trade journal publicity and editor of *The Worthington News*. He is living at 25 Sterling Drive, E., South Orange, N. J.

Class of 1920

E. J. Lantz is at 46 E. Ettwein St., Bethlehem, Pa.

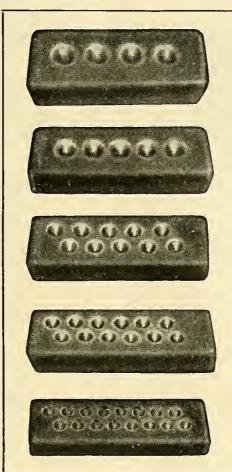
M. P. Paret, Jr., is living at 1155 "B" E. Main St., Ventura, Cal.

Glen Melville is resident engineer for Modjeski and Masters on the Louisville Municipal Bridge, which they are building over the Ohio River, connecting Louisville and Jeffersonville, Ind.

Bill Heck's new address is 1519 Linden St., Reading, Pa.

Swede Johnson has left the St. Anne Paper Co., after working up to head their Woods Dept., to accept a better job that will bring him back from Canada. You can find him with the International Paper Co., Pershing Sq. Bldg., New York City.

We're glad to be able to tell you about T. F. Straub whose whereabouts



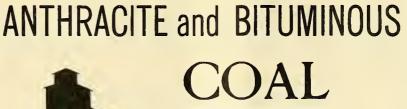
CHILLED IRON WIRE DRAWING DIES

Grinding plates, sand blast nozzles, pug mill blades, liner plates, tube mill trumpets, rod and rolling mill guides, centrifugal pump liners, pipes for ash conveying systems, coal breaker troughs, etc. All made of "Trenite"; our hard, white, abrasion resisting iron, remarkable for its wearing capacity.

McFarland Foundry and Machine Co.

TRENTON, N. J.

J. H. PENNINGTON, '97, Gen. Mgr.





ALAN C. DODSON, '00

T. M. DODSON, '00

G. R. RADFORD, '84

C. S. KENNEY,

H. B. TINGES, '12

E. L. WALTERS, '26

GENERAL OFFICES,

BETHLEHEM, PA.

10

FLECK BROS. Co.

Manufacturers and Dealers

PLUMBING and HEATING SUPPLIES

For Every Type of Home and Building



Growing Great Since '88 WEIL-McLAIN Boilers STANDARD Enamelware REPUBLIC Brass Work PAWNEE Pipeless Furnaces MOHICAN Closet Outfits

Septic Tanks, Wrought Pipe, Valves, Screwed Fittings, Radiators, Heating Appliances, Water Supply Systems, Factory Equipment

GENERAL OFFICES AND DISPLAY HOOMS

50 N. FIFTH STREET 5106-5112 GERMANTOWN AVENUE 1645 N. AMERICAN STREET WESTMORELAND AND AGATE STREETS

PHILADELPHIA, PA.

JOHN G. FLECK, '90 Vice-Pres. and Gen. Mgr.

G. B. LA PISH, '19 Pur. Agt. Reading Br. BHANCHES

Allentown, Pa.
Atlantic Clty, N. J.
Baltimore, Md.
Camden, N. J.
Easton, Pa.
Lancaster, Pa.
Lancaster, Pa.
Lansdowne, Pa.
Macungie, Pa.
Norfolk, Va.
Potistown, Pa.
Potisville, Pa.
Reading, Pa.
Strondsburg, Pa.
Warren, Pa.
Warren, Pa.
Williamsport, Pa.
Williamsport, Pa.

Blast Furnace Slag

CRUSHED and SCREENED

— SIZES FOR ALL PURPOSES —

Also Granulated Slag and Ashes

-PLANTS-

DUQUESNE, PA.
DUNHAR, PA.

POTTSTOWN, PA.
COATESVILLE, PA.

TEMPLE, PA.

CATASAUQUA, PA.

BIRDSBORO, PA.

EASTON, PA.

WHARTON, N. J.

DUQUESNE SLAG PRODUCTS CO.

Main Office
Diamond Bank Bldg.
PITTSBURGH, PA.

District Sales Office 425 Commercial Trust Bldg. PHILADELPHIA, PA. Dist. Sales Office 34 W. Blackwell St. DOVER, N. J. we did not know until a few days ago. He is in the trust department of the Chase National Bank at 18 Pine St., New York City, and living at 34 W. 69th St.

Class of 1921

A. T. Wilson, Correspondent 1118 W. Market St., Bethlehem, Pa.

Saw Sam Cottrell at the Lafayette track meet and he seems as well as usual.

For the henefit of '22, Ed Beale, wife, parents and brother were also there, especially the lacrosse game as Mr. Beale is a Stevens man.

Also for '22. Bill Davis, Jr., son of W. S. Davis, '88, is the father of a fine healthy boy, born about May 1 in St. Joseph's Hospital, Reading, Pa. Everyone doing well. Bill is with the Standard Oil Co. of Pa.

Bob Good, who has been district representative at Pittsburgh for the Electro Metallurgical Sales Corp. of New York, was recently promoted to metallurgical engineer of that concern. He will continue to make his headquarters in Pittsburgh.

J. H. Alden is a plant metallurgist with the U. S. Aluminum Co. at Niagara Falls, N. Y. He was with this company before, but at New Kensington, Pa. He is living at 637-4th St., Niagara Falls.

R. A. Childs is leaving Nice for New York on April 25.

M. F. Snyder is supervisor of the Beneficial Operating Bureau of New York at 1711 Pere Marquette Bldg., New Orleans, La. He was with this company before, but in Dayton, Ohio.

W. T. Jebb is now living at the Waterbury Club, Waterbury, Conn.

J. E. McNamara, Jr., who was representative of Horwath and Horwath, is now supervisor of that company at 551 Fifth Ave., New York, N. Y. He lives at 38 Park Ave., Yonkers, N. Y.

H. O. Wright has moved from Westfield, N. J., to 5230 Richard Ave., Dallas, Texas.

I was getting gas at a Blue Sunoco Station (free ad.) up above Shamokin one day when Clyde Stout went tearing past. I caught up to him three days later in Hazleton, and he said everything was O.K., and that he was in the contractors' equipment game, power shovels, mixers, etc., living in Berwick.

Fat Wasser says all his favorite bootleggers are in jail, and he is losing weight. At present tipping several beams and other things at plenty, but outside of that, he is still making all the big-shots of his company back way down when they come near his domain with advice.

Class of 1922

C. C. Strauch, Correspondent 154 E. Northampton St., Wilkes-Barre, Pa.

Say, some of you fellows may remember Butch Roberts' place in Northampton, where we held our Fifth Reunion. Chubby tells us the hotel burned down and only a few inmates were disturbed, with no casualties. Butch is operating a place somewhere on the Bath Pike and maybe we can line this place up for our next reunion.

Lieutenant G. B. Gelly comes to life from the U.S.S. Downs, at New London, Conn., with the disappointing news that he has only seen one '22 man since 1923. This was Fred Bailey, who, he tells us, is with the Eastern Steamship Lines in Boston, Mass. Gelly is all set to go south for target practice on the 12th of the month and he is planning to see his wife and three-year-old son, who are living down in Florida while he runs around on ships.

Chippey Drew wants to know if any of the lacrosse men want new socks. Chippy is evidently getting big-hearted in his old age, for as the writer recalls it, a new pair of clean socks was as scarce as "hen's teeth" a few years ago. Chippy isn't married yet, but he has got a good start. His engagement has been announced to Miss Alice Potts, of Asbury Park, N. J., and Chippy tells us she has all comers licked to a frazzle. Chip is connected with Poor's Publishing Co., 33 Broadway, N. Y., and claims to be the "poor" part of the company.

Class of 1923

A. C. Cusick, Correspondent 62 E. Market St., Bethlehem, Pa.

Dear Gang:

The college year is rapidly drawing to an end and so are your opportunities to pay your class dues and Alumni Bulle-TIN subscription. In college our class enjoyed the reputation of "The Best." Let's keep it so, and send Buck our checks to include the above two mentioned items.

Turk Read was in town last week-end and looks well and healthy. Still has that "School Girl Complexion," although his hair is a little thin on top. He is with the Kittinger Furniture Co., of Buffalo, in the capacity of production engineer. Turk, by the way, is the father of two wonderful children. When he left Bethlehem for Washington he was going to give the famous Mr. Jones Hfor copying Woolworth's 5 and 10.

Mike Garber left the Baldwin Locomotive Works, where he was assistant engineer of tests, to accept a position with Alan Wood Steel Co., of Conshohocken, Pa. Mike is engaged to Miss Rose Pasternack of Ferriday, La., and expects to get married ou Christmas. Good luck, Mike!

Anyone know where M. Field is living

Julie Gardy is managing editor of a weekly newspaper, The Media Advocate. He is living at Front and Olive Sts., Media, Pa.

N. R. Guthrie, Jr., is living in Louisville, Ky., along with Max Glen and Hunt Isert. They make plenty of Lehigh whoopee in Louisville. John Coolidge hasn't a thing on Guth, who is a colonel on the governor of Kentucky's staff. His new address is 1100 Starks Bldg., Louisville, Ky.

William S. Eichelberger, ex-'23, Penn, '24, is a coal salesman in the famous Shenandoah Valley of Virginia. This territory is famous for its *still* water. Headquarters at 1019 Fidelity Bldg., Baltimore, Md., the Consolidation Coal Co.

Charlie Forstall is with the Reading Railroad—supervisor. He is at present engaged in trying to eliminate a bad grade crossing at Manayunk.

Allen Higgins is in the banking business, and located at 45 Silver St., Dover,

THE R. G. JOHNSON COMPANY

CONTRACTORS AND ENGINEERS

SHAFTS, SLOPES MINING CONSTRUCTION

Pittsburgh, Pa.

R. G. JOHNSON, '04 C. H. DORSEY, '08

CHARLES McGONIGLE. '01

OTHO POOLE

POOLE & McGONIGLE

ENGINEERS AND MANUFACTURERS

STRUCTURAL STEEL FOR BRIDGES, BUILDINGS, ETC.

PORTLAND - - - OREGON

POOLE-DEAN COMPANY

Incorporated 1911

STEEL CONTRACTORS ERECTORS OF BRIDGES AND BUILDINGS

PORTLAND - - - OREGON

OTHO POOLE

CHARLES McGONIGLE, '01

KEEP UP PRODUCTION!

The secret of success is consistent, efficient, continuous production. Your Sales Department and Plant is designed to guarantee this. But what about the unforseen interruption caused by Fire or Explosion?

We issue policies to pay for loss of profits and income due to such interruptions.

tions.
This is called Use and Occupancy Insurance.



W. M. Goodwin, Inc.

INSURANCE SURETY BONDS

Wilbur Trust Co. Bldg.

Bethlehem, Pa.

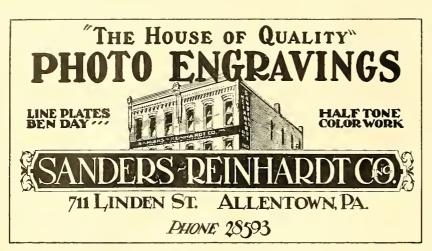
Phone 3547

NEW YORK SEWAGE DISPOSAL COMPANY 5621 GRAND CENTRAL TERMINAL, NEW YORK **Engineers and Contractors**

GEO. L. ROBINSON, '00, Pres. BEN. E. COLE, '13, Secy.-Treas.

SAMUEL T. MITMAN, '19, Engineer H. S. HUTCHINSON, '18, Engineer

W. T. DOBSON, '10, Supt. of Const.



MERCHANTS REFRIGERATING CO.

NEW YORK

JERSEY CITY

NEWARK

COLD STORAGE AND STREET PIPE LINE REFRIGERATION

TOTAL CAPACITY—18,000,000 CUBIC FEET

GEORGE A. HORNE, '99 Vice-Pres. and Chief Engineer General Offices

17 Varick St., New York City

Charlie Knodel is a research engineer with the International Combustion Corp. at 191 Doremus Ave., Elizabeth, N. J. Charlie is the proud father of a baby girl

We all remember Cyril Foot as the only fellow on the campus running around in zero weather without an overcoat or hat, and even discarding his vest if the temperature rose to 10 or 12. Never without his woolen mittens, however. Well, Cyril is with Babcock and Wilcox on special work at Beaver Falls, Pa. His address is General Brodhead Hotel, Beaver Falls, Pa.

T. O. Wohlsen was married ou April 11, 1928, to Anne Elizabeth Heller, of Lancaster. Working with his father, Herman Wohlsen, general contractor, Lancaster, Pa., living at R. D. S. He is keeping sober, but doesn't want me to publish the fact, so I've become suspicious.

William (Poop) Laughton says that I know too damn much about him now. Quite true, Poop, and it's mutual. Tell me this, how did you fool your wife? That's the only thing about you I don't know. Miller is living at 2000 Baker Ave., Utica, N. Y.

Charles D. Forney is building a (small) brick house in Easton, Md., where he is associated with Hardcastle and Forney, Inc.

Hank Schrauff is in the middle of the Mexican Revolution. He is enjoying it very much. At present located at Copper Queen Mine, Naco, Mexico, as division engineer. Look out, Hank, those Mexicans don't shoot where they aim, so be careful.

FORT PITT BRIDGE WORKS

OF PITTSBURGH, PA.

BRIDGES, BUILDINGS STRUCTURAL STEEL

General Office,
20th Floor, Oliver Building, Pittsburgh
New York Office, 15 Park Row
Chicago Office, Ashland Block
Cleveland Office, Bulkley Building
Purchasing Dept. and Works, Canonsburg

T. A. STRAUB, '90, President
H. R. BLICKLE, '93, Vice-President
SCHUYLER B. KNOX, '93, Manager N. Y. Office

P. B. STRAUB, '97, Secretary and Treasurer A. SHELDON, '93, Asst. Chief Engineer N. G. SMITH, '06, Engr. Contr. Dept.

D. B. STRAUB, '28, Drft. Dept.

Class of 1924 5-YEAR REUNION, JUNE 8, 1929

Charles M. Alford, Correspondent 61 Glenwood Ave., East Orange, N. J.

W. A. W. Cramer is doing engineering design work with the U. S. Government at the Naval Operating Base, Norfolk, Va. He is living at 808 W. Ocean Ave., in that city.

L. L. Cupp has been promoted to sales manager of the N. Y. district of the Keystone View Co. He says that he sees John Zannaras, who is busy hunting cargoes for the High Seas Transportation Co. that he and his brother are running.

Mrs. M. L. Rudolph, of Allentown, has announced the engagement of her daughter, Romola, to the Rev. Gordon T. Jones. Miss Rudolph is a sister-inlaw of Richard Boyd, '15.

L. M. Reams is with the American Heating and Ventilating Co., at 804 Times-Dispatch Bldg., Richmond, Va.

The interest our wife has shown in returned questionnaires has been most flattering to all you who have answered. Hope you'll all send so much "copy" next year that we'll need to rent a room next door.

Class of 1926

Doug Smith is head of the English Department at the Asbury Park (N. J.) High School and showed his true Lehigh spirit by sponsoring the showing of our Lehigh movie in his school.

W. W. Scott has continued his glee club activities since leaving college. He is a member of the glee club of the West Side "Y" in New York. In his spare time he works for the New York Telephone Company.

Tom Robinson is another one who has followed his undergraduate pastime. He is the advisor of the paper in the Trenton High School where he is a respected member of the faculty. Incidentally his paper has been awarded first prize in national competition. Better come back to Lehigh, Tom, the *Burr* needs you.

Steve Paliska is one of the enterprising members of the class who is in business for himself. He is one of two partners in business in Babylon, L. I. They are civil enginers and surveyors.

Royden Scholly, who was with our class for a time, is now a member of the naval reserve officers flying corps at Pensacola, Florida. He is one of six members of a class which started a few years ago with about 170.

Joe Hunter is living in Jenkintown, Pa., and is with the W. T. Grant Co.. of Schenectady.

Andy Ouss, our "royal" mining engineer, is a designer of distilling units for the Foster Wheeler Company at 90 West Street. New York City.

George Wilmot, who is with the Weatherly Foundry and Manufacturing Company, makes an occasional trip to Bethlehem in the interest of his company's newly developed product, "diamite," which is a special hard iron particularly adapted for resisting abrasion in pulverizers, crushers, ball mills, etc.

You remember Slim Griesemer started out as an austere member of the faculty at Brown but the job was too serious for jovial Slim so he returned to Allenstadt and is now an engineer in charge of proposition analysis with the Fuller Lehigh Company.

Mike Harris is another of our law students, only he has a job on the side with the Philadelphia Electric Company, in their legal department. Temple is his new Alma Mater.

Don't forget June 7 and 8. There are two more long years before our five-year reunion, so this would be a good time for an informal reunion. If you wait until 1931, you may not recognize the campus by that time.

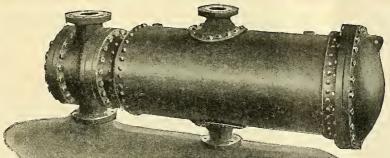
Believe it or not, Bill Miller is engaged, to a Bethlehem girl of course; he was a Bethlehem boy before he acquired enough worldly wisdom in Carothers' sociology classes to enable him to make conquests in more distant fields. The fortunate young lady is Virginia King of 921 Itaska Street, Bethlehem. He is just finishing up the three years' training course with the Public Service Corporation of N. J.

Sam Mastriani no sooner got married and settled in Allentown than he pulled up stakes for the coal regions. Now we find him on an important job with Alaimo Brothers, general contractors, of Pittston. Sam says his firm is one of the leading contractors in that part of the state and we'll take his word for it. Now that he is with them the words "one of" might well be eliminated.

Jack Travis is now a real "parson." He was ordained on May 9 in the Trinity Church, Paterson, N. J. Jack has been minister-in-charge of Christ Church, Totowa Borough, N. J.

CROLL-REYNOLDS

Every Croll-Reynolds Heater is especially designed for the particular conditions under which it is to function. Three general types of construction have been developed to meet all requirements. (1) High Pressure Heaters, for more than 75 lbs. steam pressure. (2) Medium Pressure Heaters, for between 30 and 75 lbs. pressure. (3) Low Pressure Heaters, for less than 30 lbs. pressure.



High Pressure Heater—500 lbs. Working Water Pressure, 750 lbs. Test Pressure. A.S.M.E. Code Shell, 325 lbs. Test Steam Pressure.

Also manufacturers of Surface Condensers; Evaporators; Heat Exchangers; Oil Refinery Vapor Condensers and Coolers, Air or Gas Intercoolers and Aftercoolers; "Evactor" Steam Jet Air Pumps; and Steam Jet "Thermo-Compressors."

Write for Details.

All Croll-Reynolds Feed Water Heaters have straight seamless tubes expanded into a stationary tube sheet at one end and into a floating tube sheet at the other to provide for expansion and contraction without strains. The high and medium pressure types have steel shells while the low pressure type may have either a steel or cast iron shell according to the conditions under which it is to oper-Other construction ate. details are varied according to the service required and in all respects conform strictly to the A.S.M.E. Code for Unfired Pressure Vessels.

CROLL-REYNOLDS ENGINEERING CO., 17 JOHN STREET, NEW YORK CITY

S. W. CROLL, '10, President

BOSTON—Hayes Pump and Machinery Company, 94 Pearl St. CHICAGO—Ernest E. Lee Company, Inc., 115 So. Dearborn St. COLOMBUS—The Dennis Engineering Company, 243 North fligh St. HOUSTON—The H. L. Thompson Company, 404 Avondale.

LOS ANGELES—G. M. Kohler, 1013 E. Sth St. PHILADELPHIA—O. S. Carter, 123 South Broad St. ST. LOUIS—A. T. Hunter, 2083 Railway Exchange Bldg. ST. PAUL—Robinson, Cary and Sands Company.

Fred Stephens, who is located in Falls Village, Conn., finds that honsekeeping, nursery duties and auto repairing take most of his time but on the side he is working on an endowment fund plan to provide funds for impoverished graduates. We know of several fellows who have been out of college for three years who would like to be on the receiving end of such a plan. He doesn't forget the "E.M." after his name so he either

thinks he's still in college or he believes it gives him some dignity. If he's the same fellow he was in college, he can stand a little of the latter.

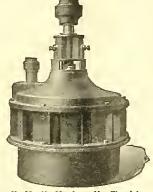
If you've listened to the Jeddo Highlanders on the radio, you've prohably heard Gilbert Smith. He is a cost clerk with the Jeddo Highland Coal Company and has learned to play a saxophone so he undoubtedly helps ont his employer on the radio.

Established 1830

Incorporated 1902

Christiana Machine Company

CHRISTIANA, PA.



C. M. C. Hydraulle Turbine

Louis B. Bond, '26, Supt.

ENGINEERS, FOUNDERS
AND MACHINISTS

Manufacturers of

Cut Tooth Gears, Cast Tooth Gears,
Mortise Gears, Pinions and Cogs
C. M. C. Hydraulic Turbines
Special Machinery
Grey Iron and Semi-Steel Castings

Charles R. Stauffer, '28

Donald Werntz, '27

Materials Handling Equipment



MODERN AND EFFICIENT EQUIPMENT FOR EVERY MATERIALS HANDLING PROBLEM

Broad Experience in the Design of Conveying and Elevating Systems, Screening Plants, Storage and Reclaiming Systems

Send for Catalogue No. 68

ROBINS CONVEYING BELT COMPANY

-With the Company-E. ROBINS MORGAN.'03 New York Office

15 PARK ROW, NEW YORK CITY

Boston

Philadelphia

Pittsburgh

Chicago

Los Angeles

Class of 1928 1-YEAR REUNION, JUNE 8, 1929

W. B. Billmeyer, Correspondent 89-25 Parsons Blvd., Jamaica, N. Y.

Just received a letter from Ollie Gee, and he is planning to be back for reunion. Ollie is living at 193 Martense St., Brooklyn, N. Y.

Two of our struggling lawyers, Walt Buck and Bill Heilman, are huried among the archives of Philadelphia, although they have found Camden as a place of refuge from their strenuons labors. 3624 Chestnut St., Philadelphia, will reach them.

At last we have secured a bit of news about Craig Wright. For the past year his whereabouts have been a mystery, but Craig has been so busy learning his gold and silver that letter-writing was impossible. Nevertheless, here's the low-down. Craig is working with The Gorham Co. in Providence, R. I.

Ad Covert, whom you all remember as the man who lost so much money while connected with Lehigh publications (?) is still working with the Pennsylvania Bell Tel. Co. Ad was back in Bethlehem the other week, and attended the reunion of the Chi Psi '28ers.

Norm Young is an engineer with the Long Island Lighting Co. He is working in Bay Shore and is living at 13 Chestnut St., Islip, N. Y.

Jack Kosminsky sure has picked a suitable job, a job that must have been made for him alone. He is enstomers' man for Parrish and Co., of New York, in their Reading office. Living at 130 Clymer St., Reading, Pa.

The N. Y. Tel Co. certainly will have to change its name to the Lehigh Tel. Co. Dick Zerweck is another one of us with them. He is transmission engineer at 140 West St., New York, and is living at 244 W. 71st St., New York City.

Well, Gang, best of luck and hope to see you all at the rennion.

- John Hancock Series -

A Prol	olem for
	Makers

Is the management of The Family Income.

OUR HOME BUDGET SHEET is designed to cover one month's record of income and outgo.

It is an Account Sheet for both the Beginner and the Budgetwise.

Sent FREE on request.

Inquiry Bureau

Jun Hancock
Life In Surance Company
of Boston, Massachustris

197 Clarendon St., Boston, Mass.

Please send me FREE copy of the John Hancock Home Budget Sheet. (1 enclose 2c. to cover postage.)

A.G.
Over Sixty-six Years in Business -

WHITE & BRO., INC. Smelters and Refiners

RICHMOND AND HEDLEY STS.

PHILADELPHIA

HARRY A. WHITE, '95

C. B. WHITE, '05

THE PHOENIX IRON CO.

Manufacturers of Open Hearth

STRUCTURAL STEEL SHAPES

Works: PHOENIXVILLE, PA.

Main Office: PHILADELPHIA, PA.

OFFICES:

22 S. 15th Street, Philadelphia30 Church Street, New York City

110 State St., Boston, Mass.City Savings Bank Bldg., Albany, N. Y.

Munsey Bullding, Washington, D. C.

THE PHOENIX BRIDGE CO.

Engineers and Builders of

BRIDGES AND OTHER STRUCTURES OF STEEL

Bridge Works, PHOENIXVILLE, PA.

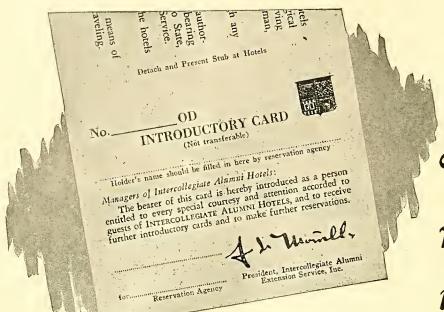
Established 1790

Capacity, 60,000 Tons per Annum

W. R. HALL, '02, ASST. ENGR., BRIDGE DE

W. H. ELLIS, '09, ASST. ENGR., ERECTION DEPT.

W. E. STURGES, '10, RES. ENGR., WASHINGTON OFFICE



This will introduce

INTERCOLLEGIATE ALUMNI HOTELS

Albany, N.Y., Hampton Amherst, Mass., Lord Jeffery Atlantic City, N.J.

Colton Manor
Baltimore, Md., Southern
Berkeley, Cal., Claremont
Bethlehem, Pa., Bethlehem
Boothbay Harbor, Manor

Sprucewold Lodge (summer only)
Boston, Mass., Bellevue
Chicago, Ill., Allerton House
Chicago, Ill., Windermere
Chicago, Ill., Windermere
Cleveland, O., Allerton House
Columbus, O., Neil House
Detroit, Mich., Book-Cadillac
Elizabeth, N.J., Winfield-Scott
Fresno, Cal., Californian
Greenfield, Mass., Weldon
Jacksonville, Fla.,

George Washington Lexington, Ky., Phoenix Lincoln, Neb., Lincoln Miami, Fla., Ta-Miami Minneapolis, Minn., Nicollet New Brunswick, N.J.

Woodrow Wilson New Haven, Conn., Taft New Orleans, La., Monteleone New York, N.Y.,

Fraternity Clubs Bldg. New York, N.Y., Warwick New York, N.Y., Westbury Oakland, Cal., Oakland Philadelphia, Pa.,

Benjamin Frankliu Pittsburgh, Pa., Schenley Providence, R.I.,

Providence-Biltmore
Rochester, N.Y.. Powers
San Francisco, Cal., Palace
Scranton, Pa., Jermyn
Spokane, Wash., Dessert
Springfield, Ill., St. Nicholas
St. Louis, Mo., New Jefferson
Syracuse, N.Y., Syracuse
Urbana, Ill., Urbana-Lincoln
Washington, D.C., Willard
Wilkes-Barre, Pa.,

Mallow-Sterling

If you travel to any extent you should have in your possession at all times an introduction card to the managers of Intercollegiate Alumni Hotels...It is yours for the asking...It assures courteous attention to your wants and an extra bit of consideration that frequently means much.

Your alumni association is participating in the Intercollegiate Alumni Hotel Plan and has a voice in its efforts and policies. At each alumni hotel is an index of resident alumni for your convenience in looking up friends when traveling. Other desirable features are included.

If you wish an introduction card to the managers of Intercollegiate Alumni Hotels, write to your Alumni Secretary or use the coupon.

INTERCOLLEGIATE ALUMNI EXTENSION SERVICE, INC.

369 LEXINGTON AVENUE, NEW YORK, N. Y.

INTERCOLLEGIATE ALUM	INI EXTENSION SERVICE, INC.	369 Lexington Ave., N. Y. C.
Kindly send me an In	troduction Card to the managers of Intercolleg	riate Alumni Hotels.
Name	College	Year
Address		
City	State	

Yeeder-ROOT:

TACHOMETERS

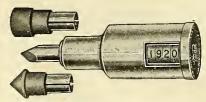
U. S. GOVERNMENT STANDARD



Products: Cyclometers for Bicycles and Motorcycles, to record distance traveled; odometers for motor trucks, to register mileage; counters for recording the production of Machines; speed counters for counting revolutions of shafts or flywheels; tachometers for indicating in revolutions-per-minute the speed of motors, prime movers, generators or any revolving part. Also fine DIE Castings requiring accuracy and uniformity of size.

The Veeder-Root booklet shows instruments that "count everything on earth." See them—by sending for the book.

PRODUCTION AND SPEED COUNTERS



The No. 21 SPEED COUNTER shown above registers number of revolutions to determine speeds of motors, engines, dynamos, line shafting, machine spindles or any revolving part. The point is held against the end of the revolving shaft; the instrument pressed lightly when count is commenced; pressure released when the timing is over. Push-clutch starts or stops recording mechanism instantly, giving exact R. P. M. readings without use of stopwatch. Price \$3.50.

Yellor-ROOTINCORPORATED HARTFORD, CONN.

C. H. VEEDER, Class of '86

ESTABLISHED 1857

INCORPORATED 1906

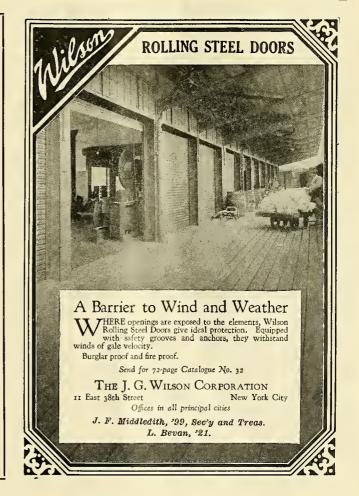
T. B. Wood's Sons Company

CHAMBERSBURG, PA.

Power Transmission Machinery
Flexible Couplings
Belt Conveyors
and the

U. G. Automatic Belt Contactor for Short Center Belt Drives

CHAS. O. WOOD, '92 T. B. WOOD, '98 G. H. WOOD, '99





John A. Roebling's Sons Company TRENTON, NEW JERSEY

PROFESSIONAL CARDS

New York City

15 Park Row

FORSTALL, ROBISON AND LUQUEER

Consulting Engineers Public Utility Problems

Alfred E. Forstall, '83

Robert O. Luqueer

St. Louis, Mo.

211 South Seventh St.

ROBERT W. BARRELL, '87 President

St. Louis Sampling & Testing Works, inc. Chemists, Metallurgists and Mining Engineers All kinds of chemical analyses, investigations of chemical and metallurgical processes, examinations of mining properties. 40 years experience.

New York City 30 Church St. Cortlandt 0824

> WM. WIRT MILLS, '87 Sales Agent

Lowe Bros., The Paintmakers Steel Coatings Paints Varnishes

New York Clty

15 Park Row CLARENCE W. HUDSON, '89 Consulting Engineer

Designs, Supervision, Estimates, Reports on All Classes of Structures T. C. Visscher, '99

ALEXANDER POTTER, '90 Consulting Engineer

Hydraulics, Sanitation, Concreté Structures

50 Church St., Tel.: 5501 Cortlandt New York City 8224 Cortlandt

WILLIAM RUSSELL DAVIS, '92 Consulting Engineer BRIDGES

103 Washington Ave., Tel.: Main 3835 Albany, N. Y.

Pittsburgh 1st National Bank Bldg. GEORGE S. BATON & CO.

Consulting Engineers Reports on Coal Properties

Geo. S. Baton, '94

New York Clty 51 East 42nd St.

> VISSCHER & BURLEY Architects

J. L. Burley,'94

New York City

256 Broadway

AMOS H. CLAUDER, C.E., '04 Attorney and Counsellor at Law

Real Estate Law and General Practice

Boston

220 Devonshire St.

EDWARD C. BROWN COMPANY Consulting Engineers

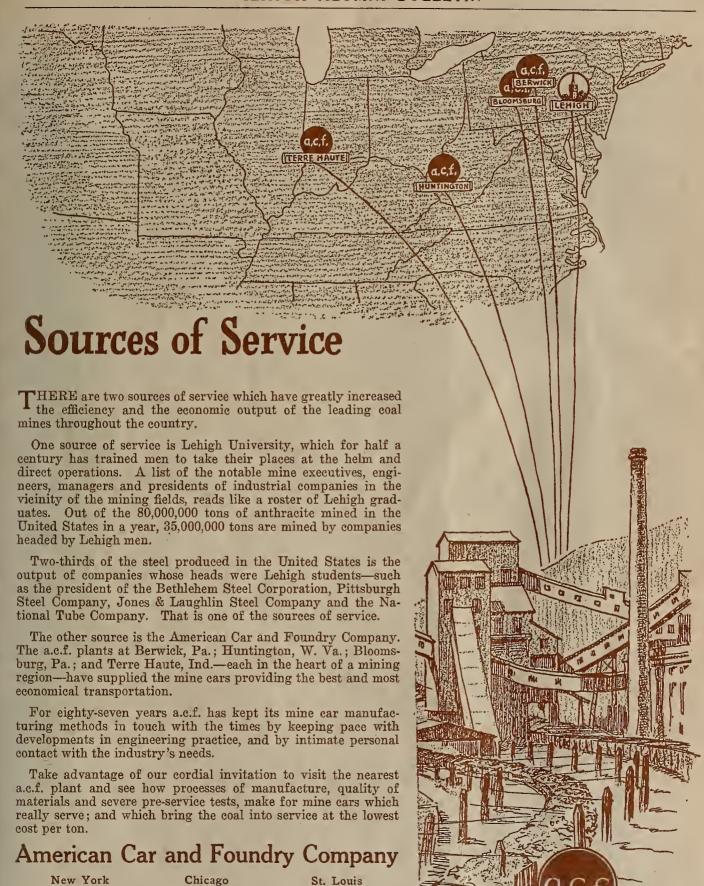
Design of Power Plants, Industrial Plants E. C. Brown, '04

A GOOD PLACE

For Your

PROFESSIONAL CARD

Write for Rates



IN THE SERVICE OF THE NATION'S RAILWAYS, HIGHWAYS, WATERWAYS, INDUSTRIES

BETHLEHEM STEEL COMPANY

PLANTS AT

Bethlehem, Lebanon, Steelton, Johnstown, and Coatesville, Pa., Sparrows Point, Md. Elizabeth, N. J., Wilmington, Del. Lackawanna, N. Y.

General Offices: BETHLEHEM, PA.

DISTRICT OFFICES:

New York, Boston, Philadelphia, Baltimore, Washington, Atlanta, Pittsburgh, Buffalo, Cleveland, Cincinnati, Detroit, Chicago, St. Louis, San Francisco, Los Angeles, Seattle, Portland, Honolulu

E. G. GRACE, '99	President
H. E. LEWIS	Vice-President
C. A. Buck, '87	Vice-President
QUINCY BENT	Vice-President
G. H. BLAKELEY	Vice-President
PAUL MACKALL, '07'	Vice-President
G. W. STRUBLE	Vice-President
J. M. Gross	Vice-President
R. E. McMath Vice-Pre	esident and Sec'y
J. P. Bender	Treasurer
F. A. SHICK	Comptroller_